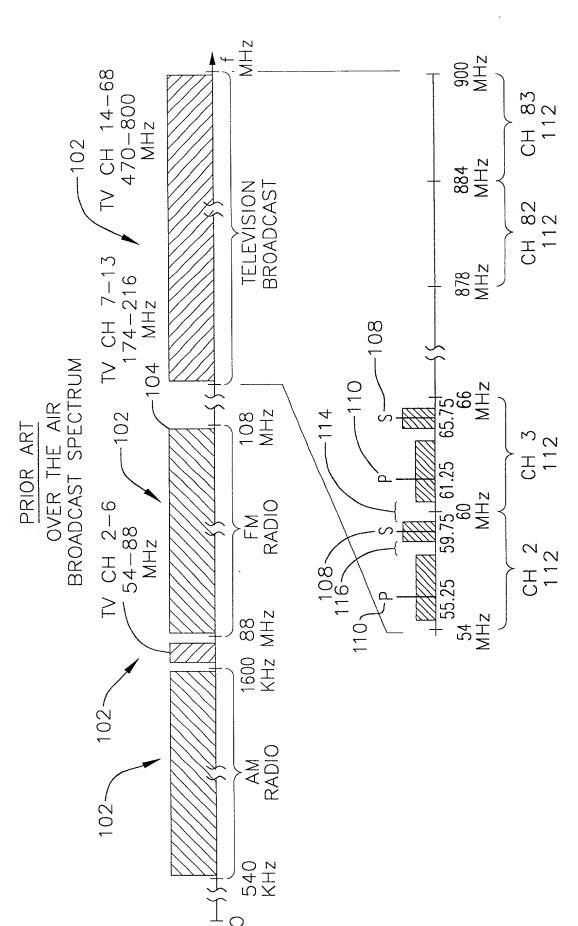
FIG. 1



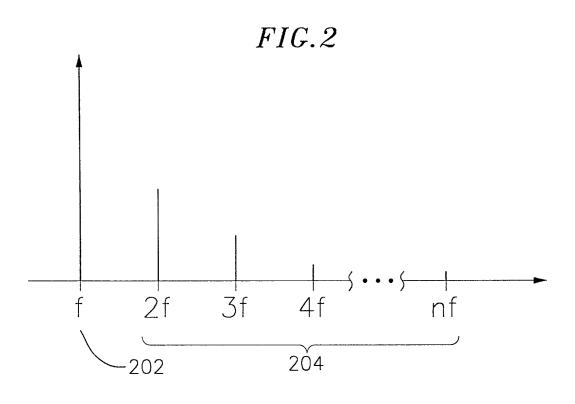


FIG.4

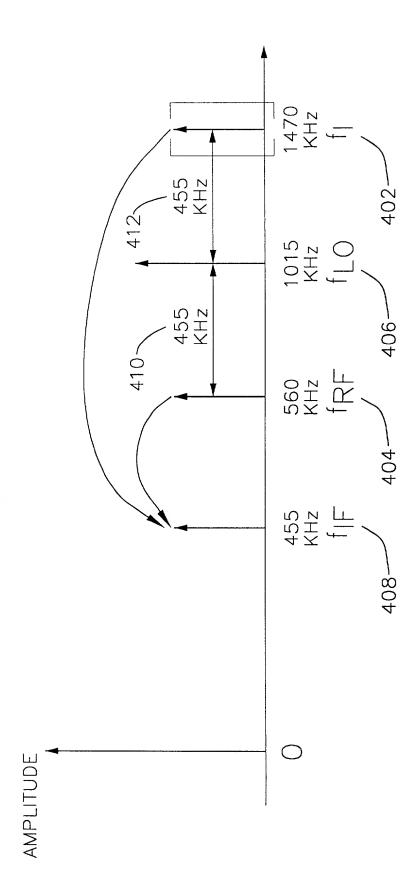
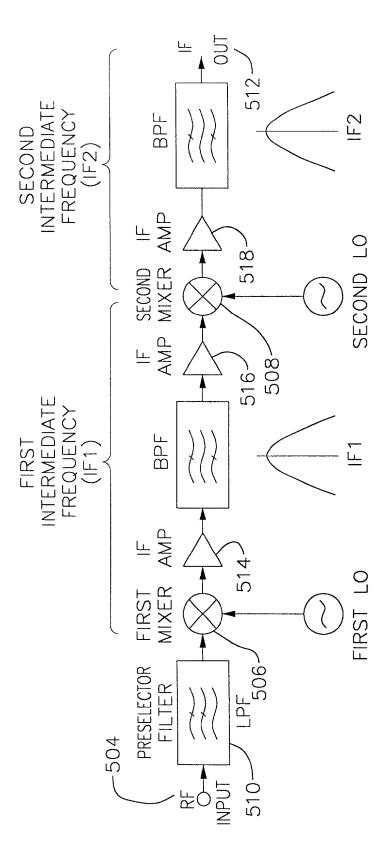


FIG.5

DUAL CONVERSION RECEIVER



IF2<RFINPUT<IF1

FIG. 6

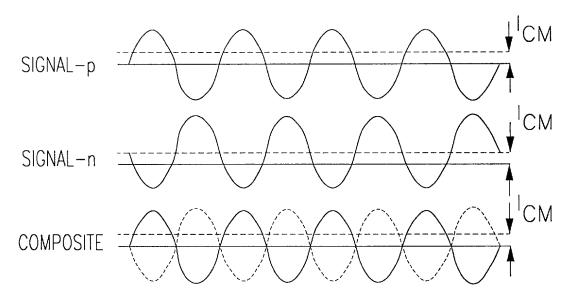
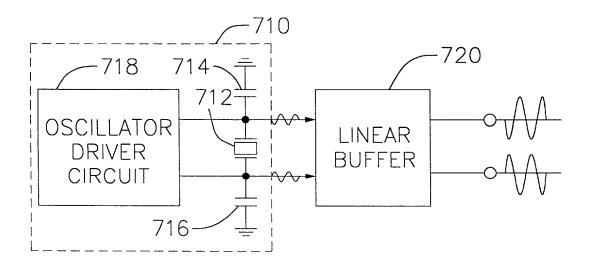
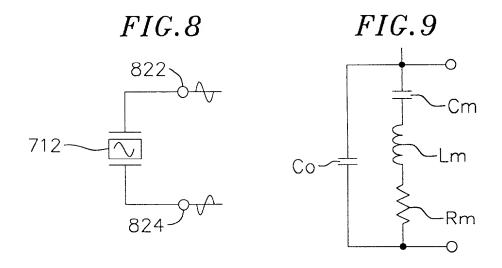
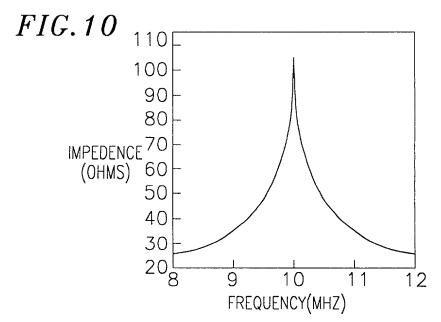
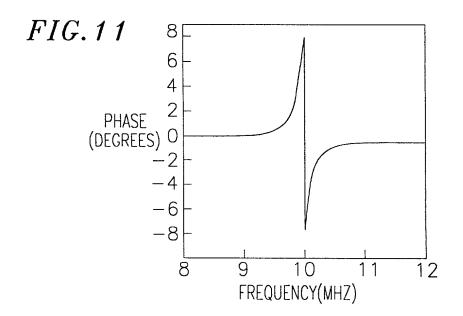


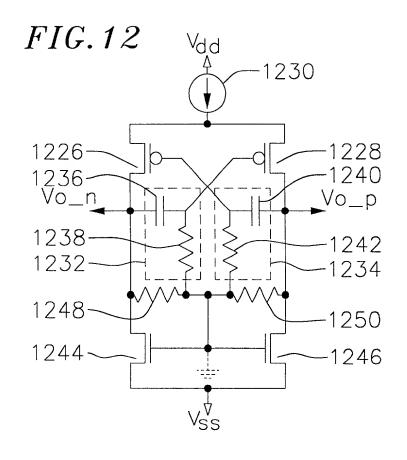
FIG. 7











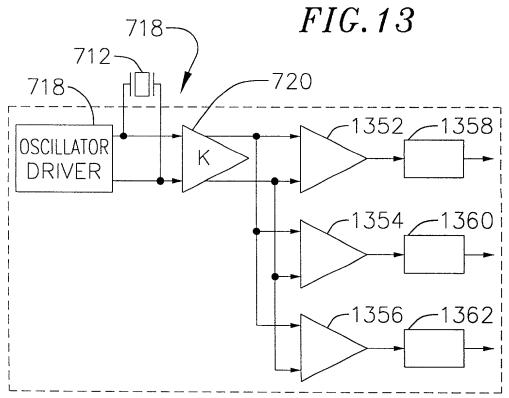
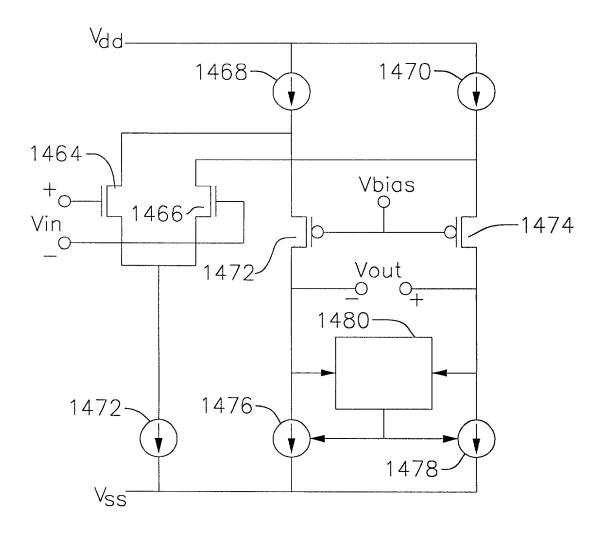
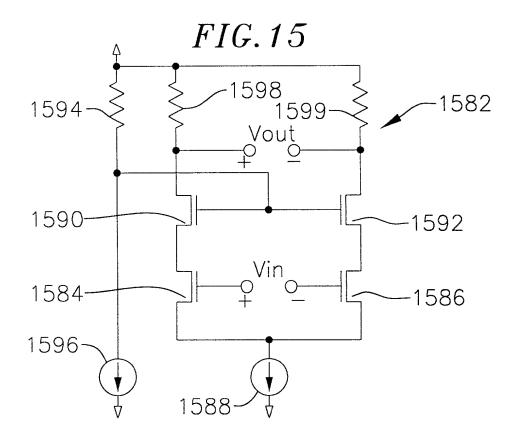


FIG. 14





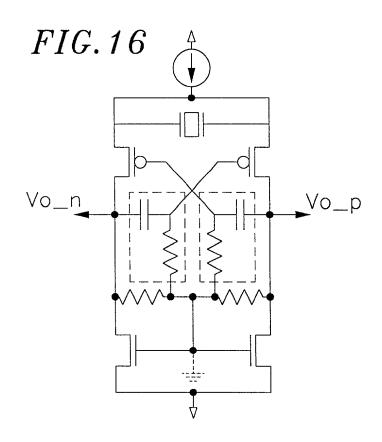


FIG. 17

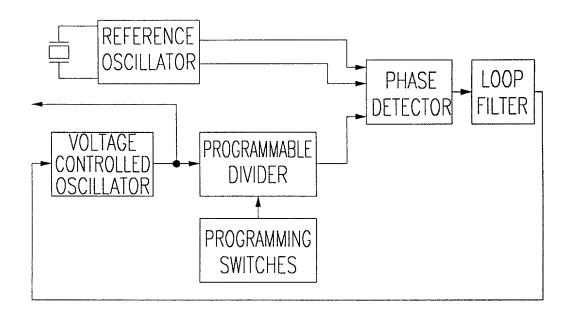


FIG. 18

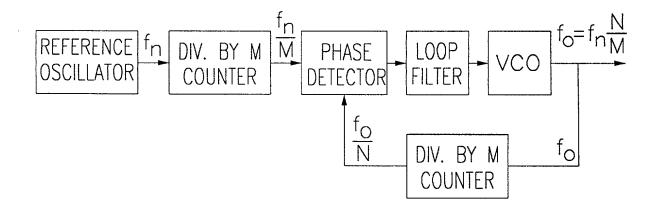


FIG. 19

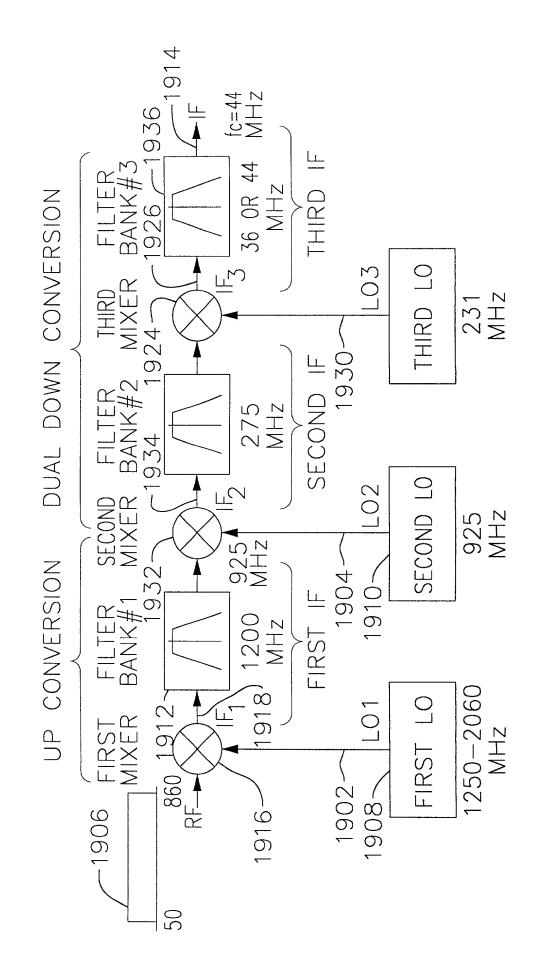
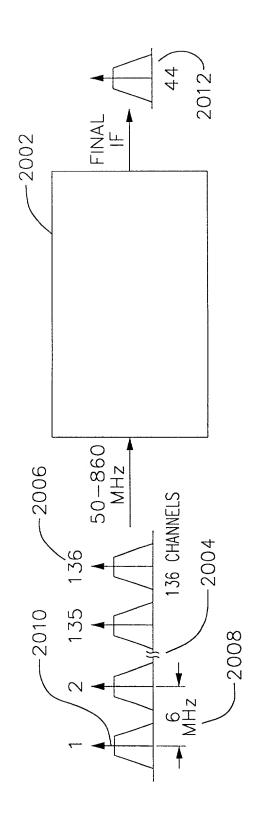


FIG.20



PPL Xtal REFERENCE=10MHz LO-1, 10MHz FREQUENCY STEPS LO-2, 100kHz FREQUENCY STEPS

FIG.21

44MHz IF

TABLE OF FREQUENCIES BASED ON COARSE/FINE PLL SOLUTION:

NOTE • LO-2 REF=100KHz SO DIVIDE RANGE=9216 TO 9280

854 860	2050 2060	1196 1200	921.6 924.8	274.4 275.2	230 231	44.0 44.0
=	=	=	=	=	=	=
128	1330	1202	926.4	275.6	232	44.0
122	1320	1198	923.2	274.8	231	44.0
116	1320	1204	928.0	276.0	232	44.0
110	1310	1200	924.8	275.2	231	44.0
104	1300	1196	921.6	275.6 274.4	230	44.0
98	1300	1202	926.4	275.6	232	44.0
92	1290	1198	923.2	274.8	231	44.0
86	1290	1204	928.0	275.2 276.0	232	44.0
80	1280	1200	924.8	275.2	231	44.0
74	1270	1196	921.6	274.4	230	44.0
89	1270	1202	926.4	275.6	232	44.0
62	1260	1198	923.2	274.8	230.8	44.0
56	1260	1204	928.0	276	232	44.0
20	1250	1200	924.8	275.2	231.2	44.0
Frf (MHz)	_0-1 (MHz)	1 (MHz)	LO-2 (MHz) 924.8	IF-2 (MHz)	L0-3 (MHz) 231.2	IF-3 (MHz)
臣		<u>-</u>	01	\ <u>'</u> -	9	4

PPL Xtal REFERENCE=10MHz LO-1, 10MHz FREQUENCY STEPS LO-2, 100kHz FREQUENCY STEPS

FIG.22

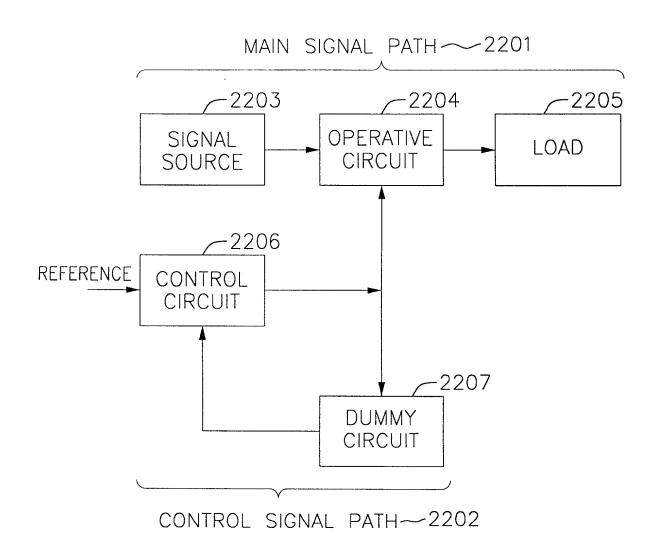
36MHz IF

TABLE OF FREQUENCIES BASED ON COARSE/FINE PLL SOLUTION:

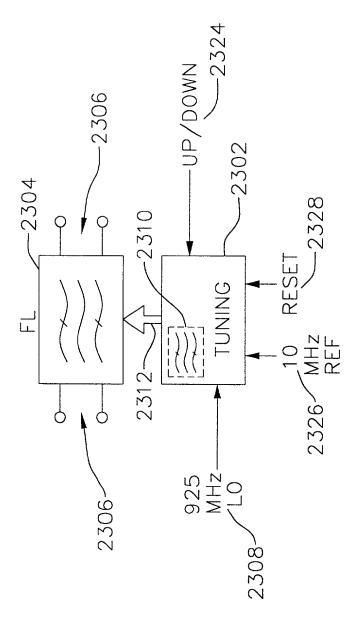
NOTE • LO-2 REF=100KHz SO DIVIDE RANGE=9280 TO 9340

Frf (MHz)	20	58	99	74	82	96	98	106	114	122	130	138	146	154	=	852	860
LO-1 (MHz)	1250	1260	1270	1270	1280	1290	1300	1310	1310	1320	1330	1340	1350	1350	=	2050	2060
IF-1 (MHz)	1200	1202	1204	1196	1198	1200	1202	1204	1196	1198	1200	1202	1204	1196	=	1198	1200
LO-2 (MHz) 931.2 932.8	931.2	932.8	934.4	928.0	930	931	933	934	928.0	930	931	933	934	928.0	=	929.60	931.2
IF-2 (MHz) 268.8 269.2 269.6 268.0	268.8	269.2	269.6	268.0	268.4	268.8	269.2	269.6	269.6 268.0 268.4	268.4	268.8	269.2	269.6	268.0	=	268.4	268.8
LO-3 (MHz) 232.8 233.2	232.8	233.2	233.6	232	232	233	233	234	232	232	233	233	234	232.0	=	232.4	232.8
IF-3 (MHz)	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	=	36.0	36.0

FIG.23



 $FIG.24\alpha$



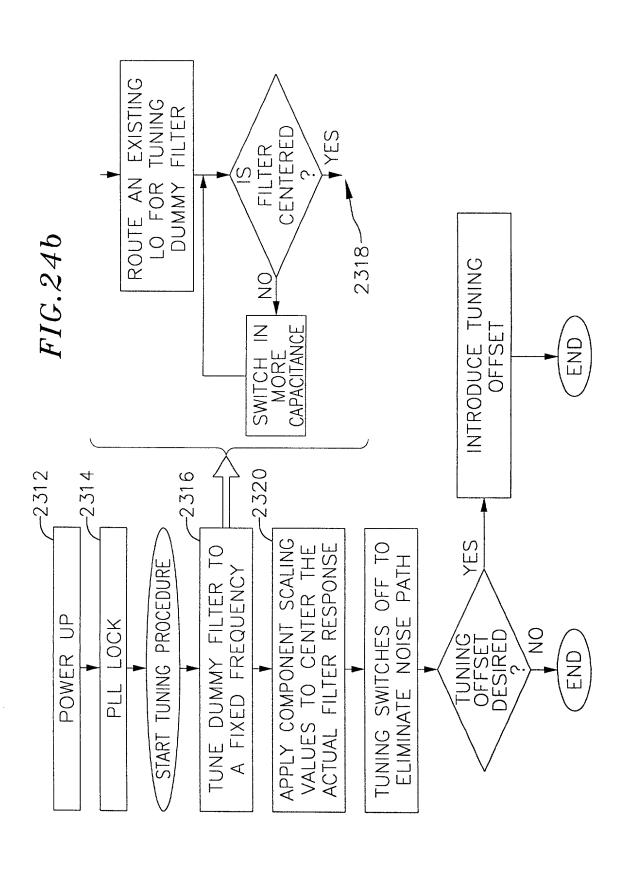
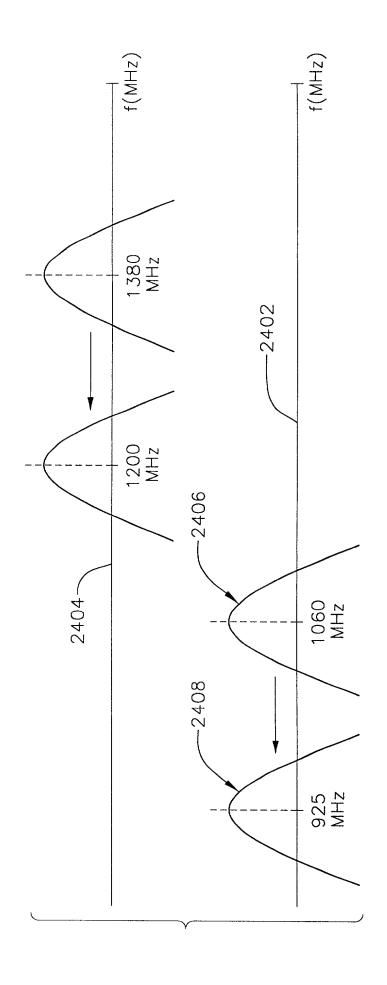


FIG.24c



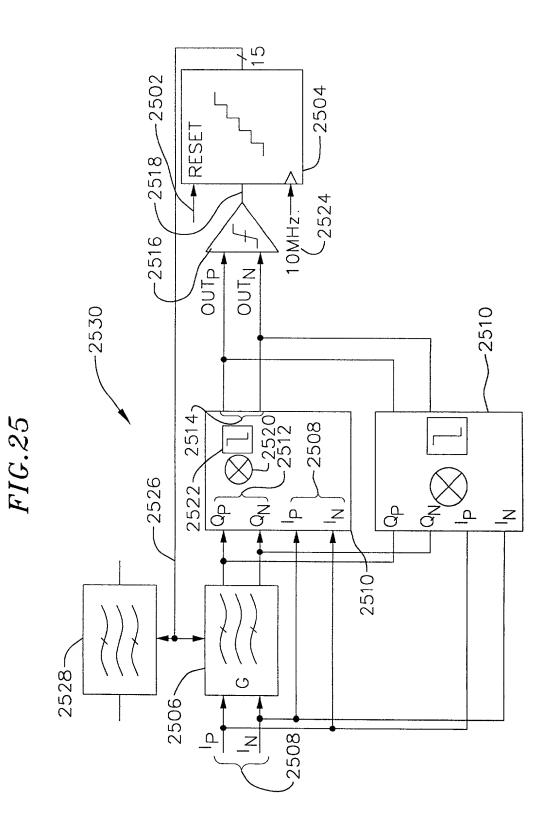
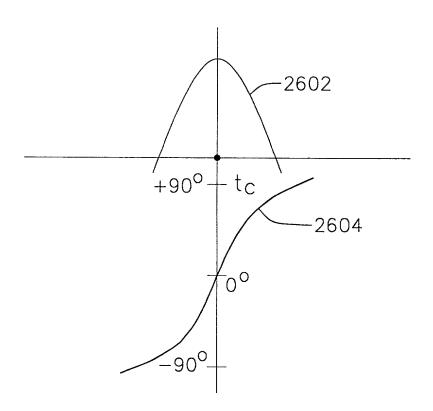


FIG.26



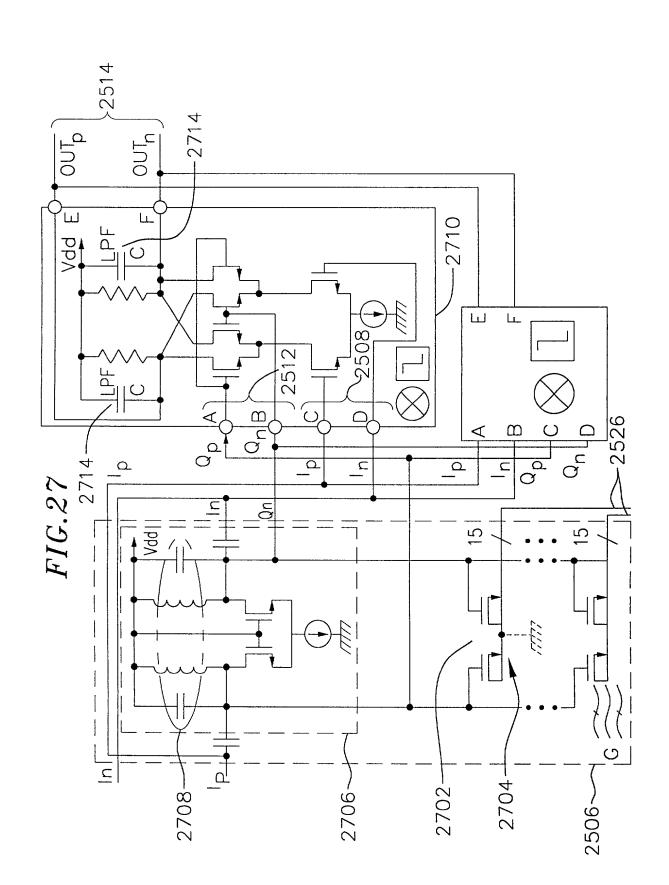
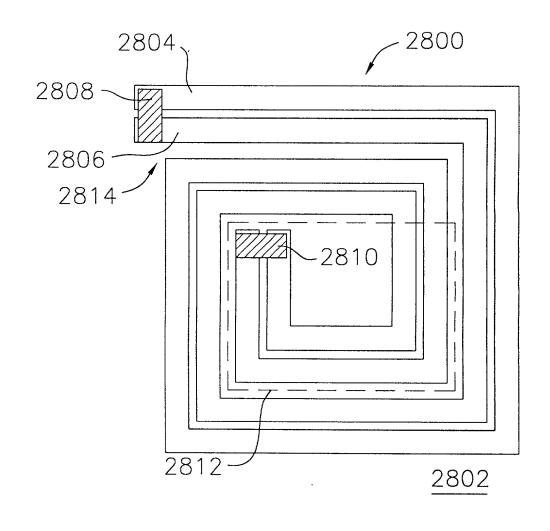
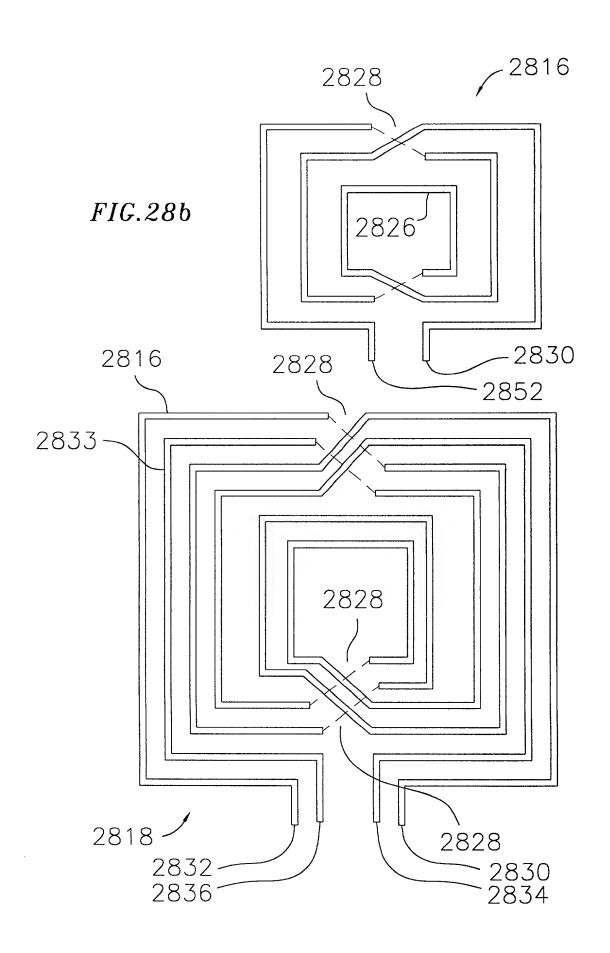


FIG.28 α





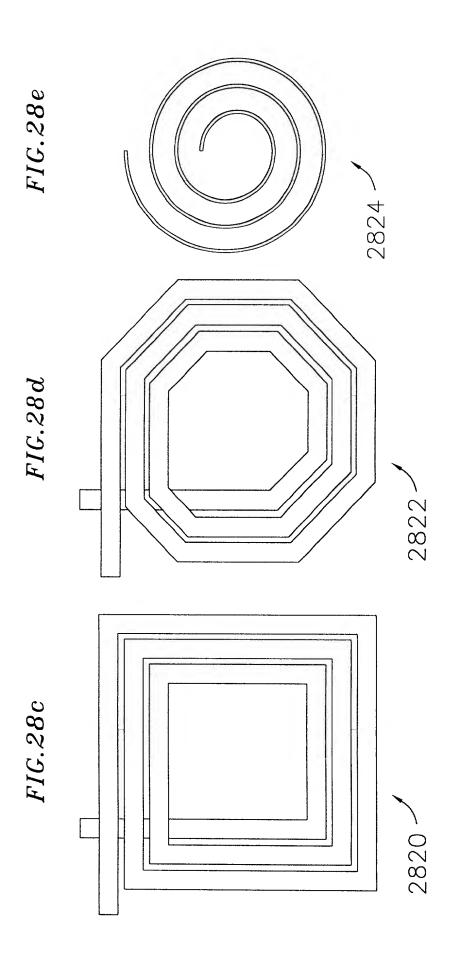


FIG.28f

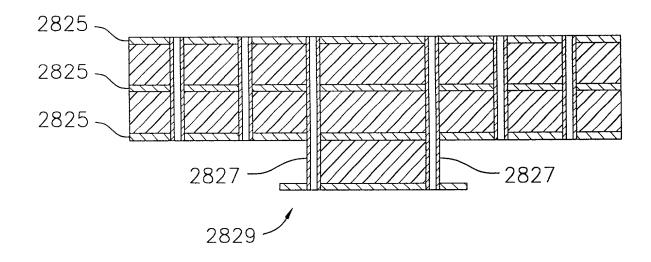


FIG.28g

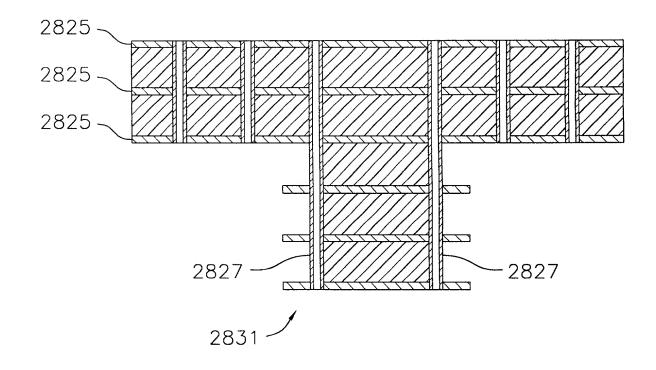


FIG.28h

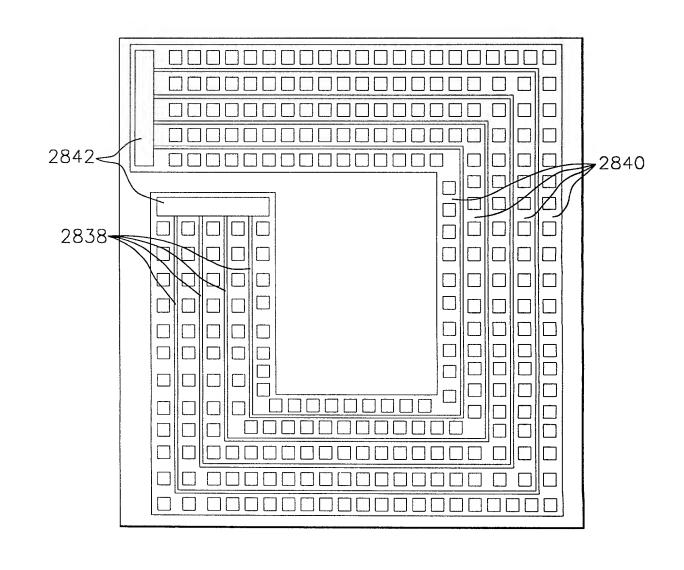


FIG.28i

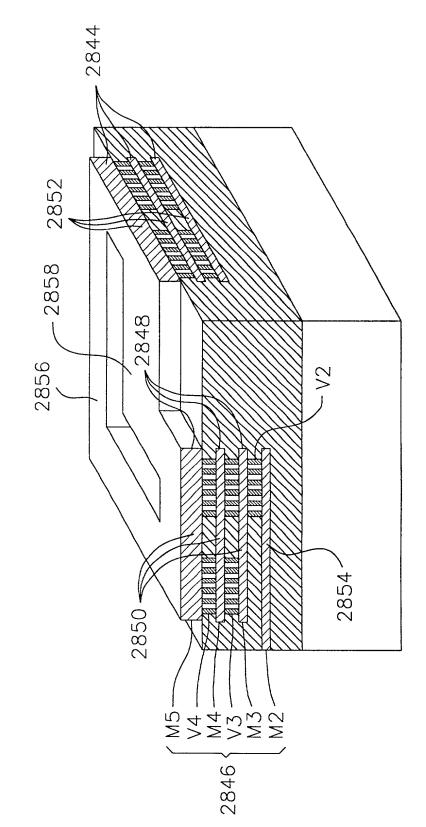


FIG.28j

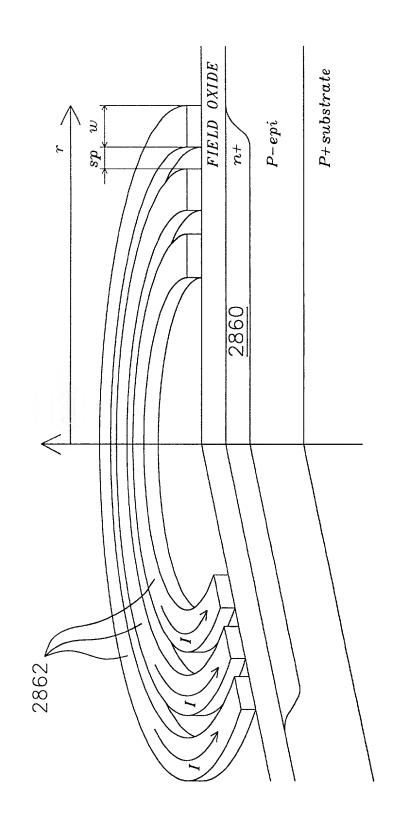


FIG.28k

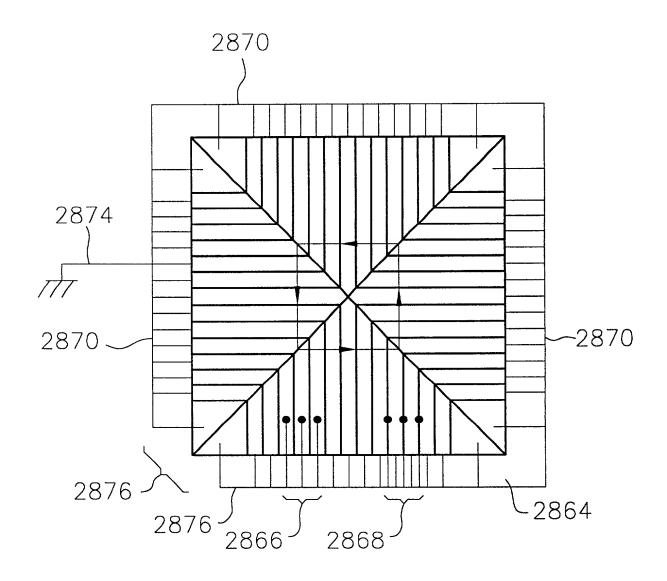


FIG.29

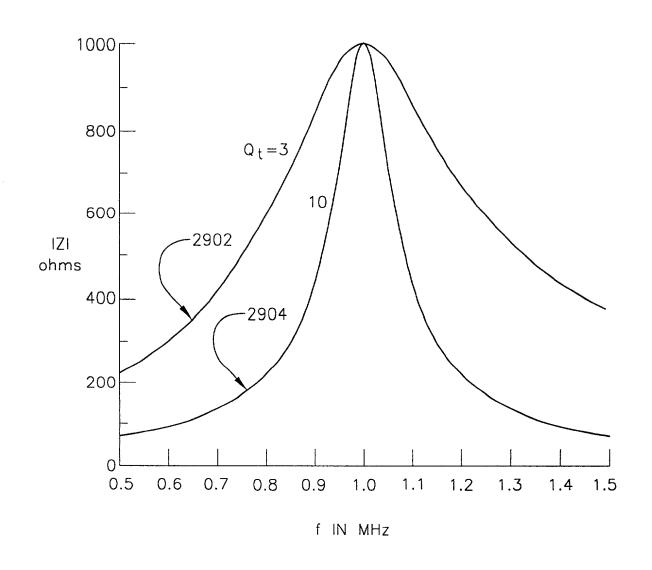


FIG.30

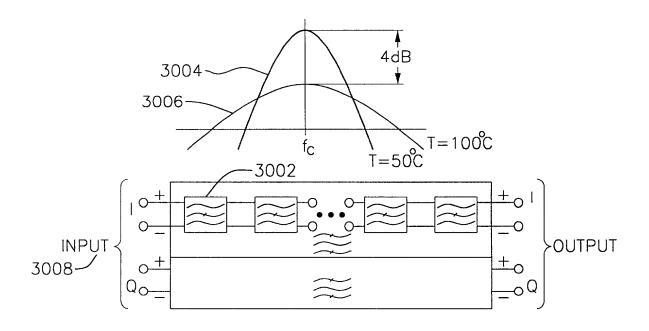


FIG.31a

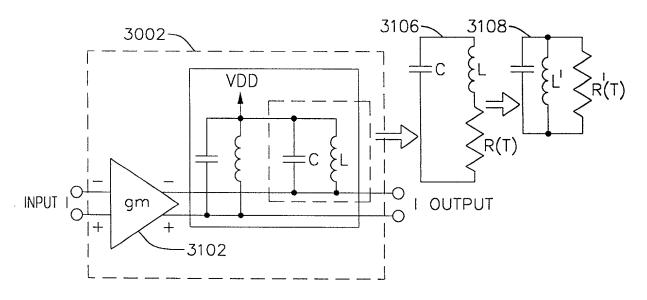


FIG.31b

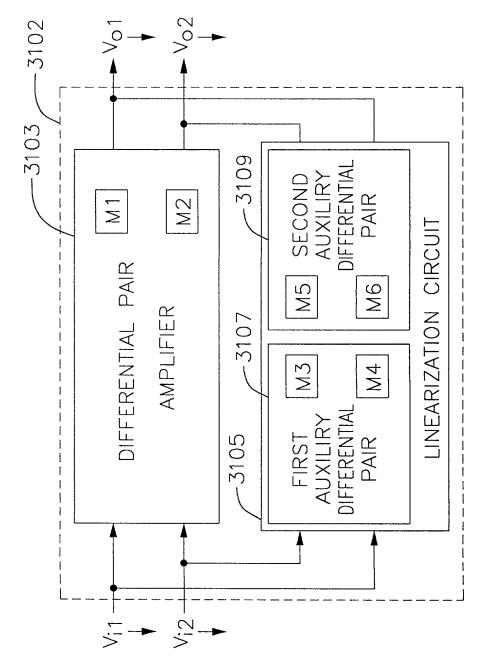
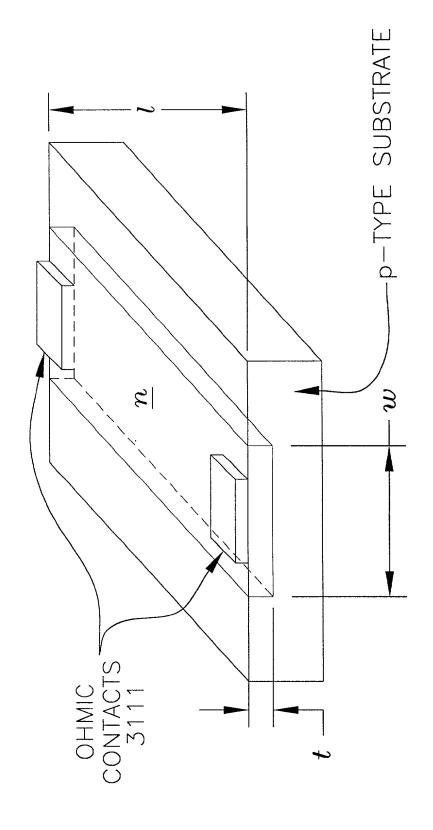


FIG.31c



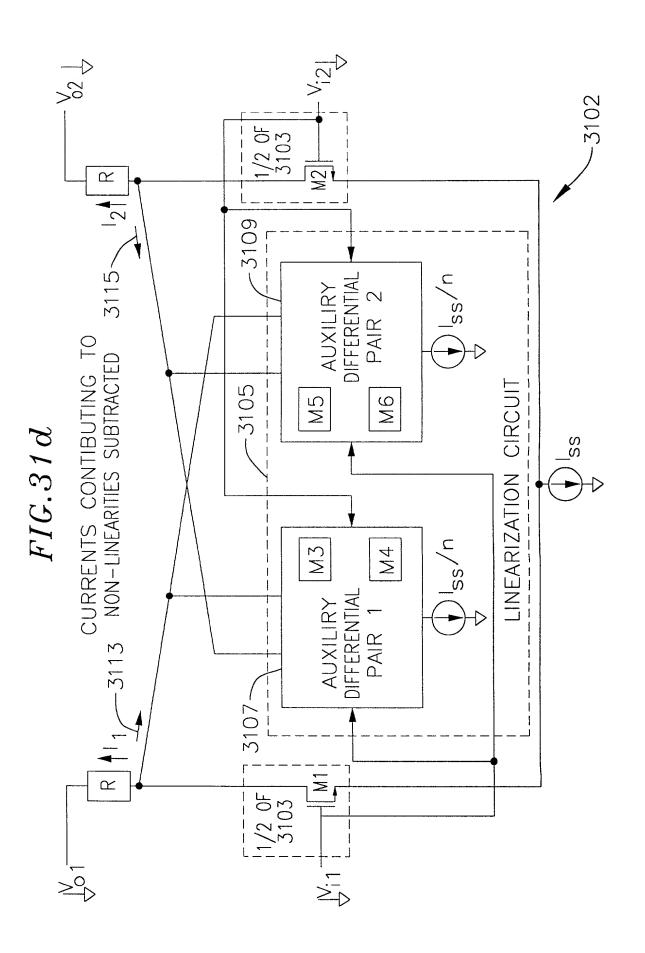


FIG. 31e

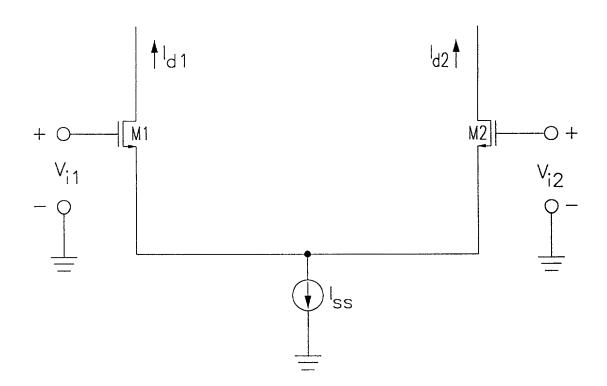
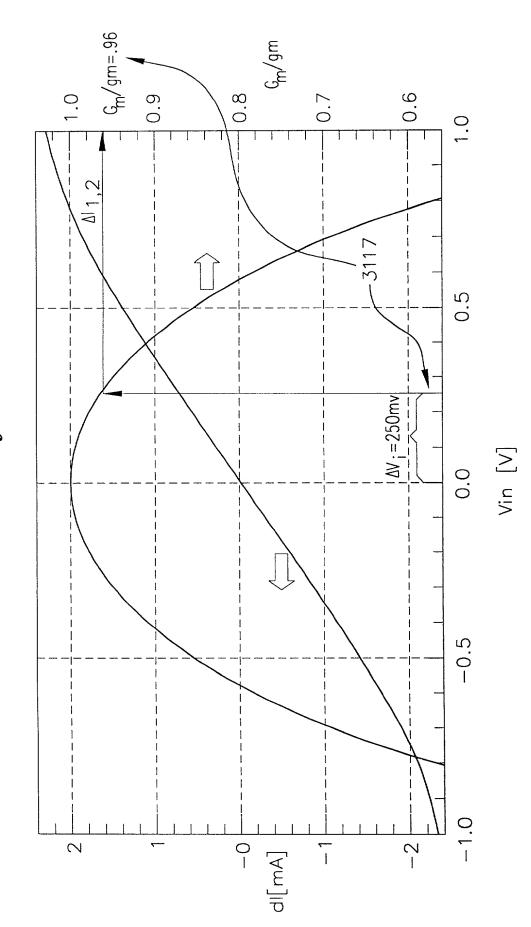


FIG.31f



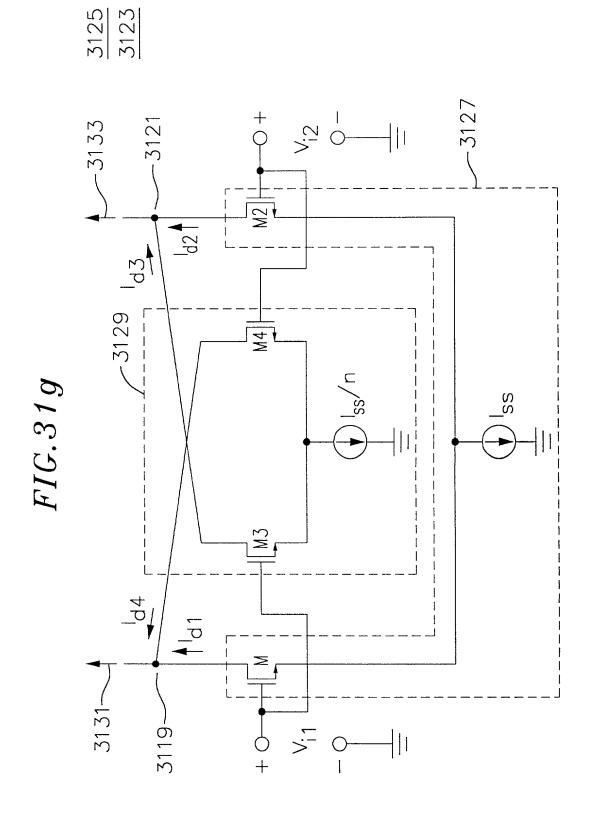
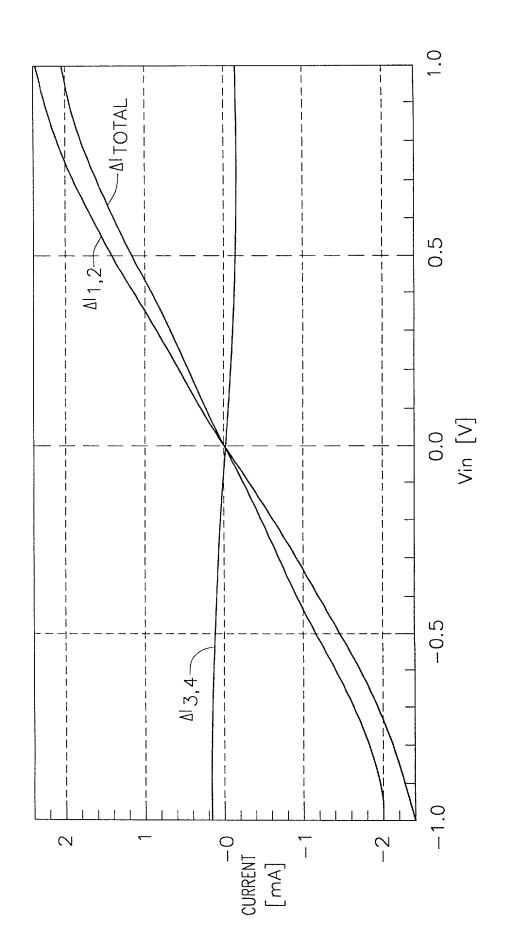
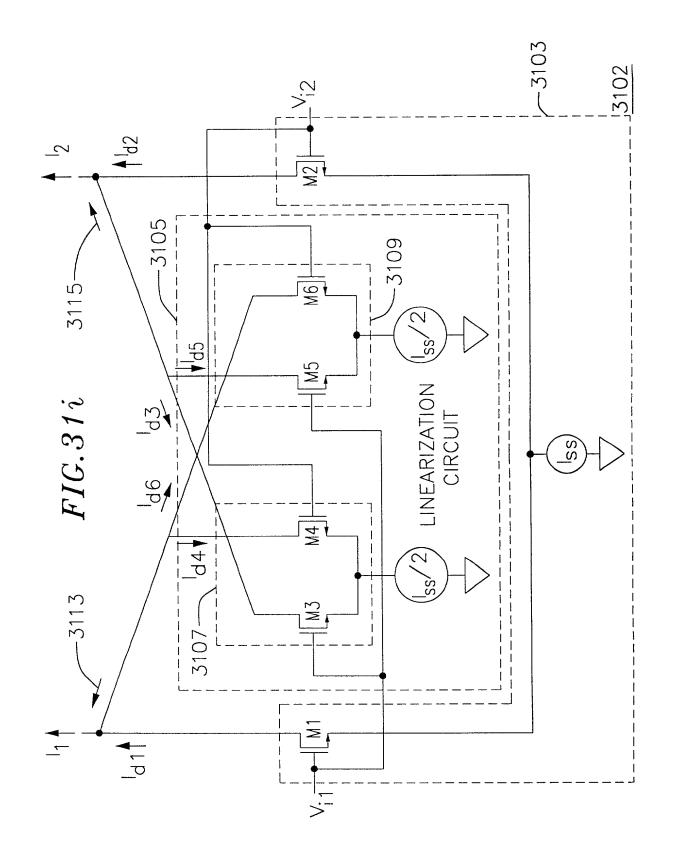


FIG.31h





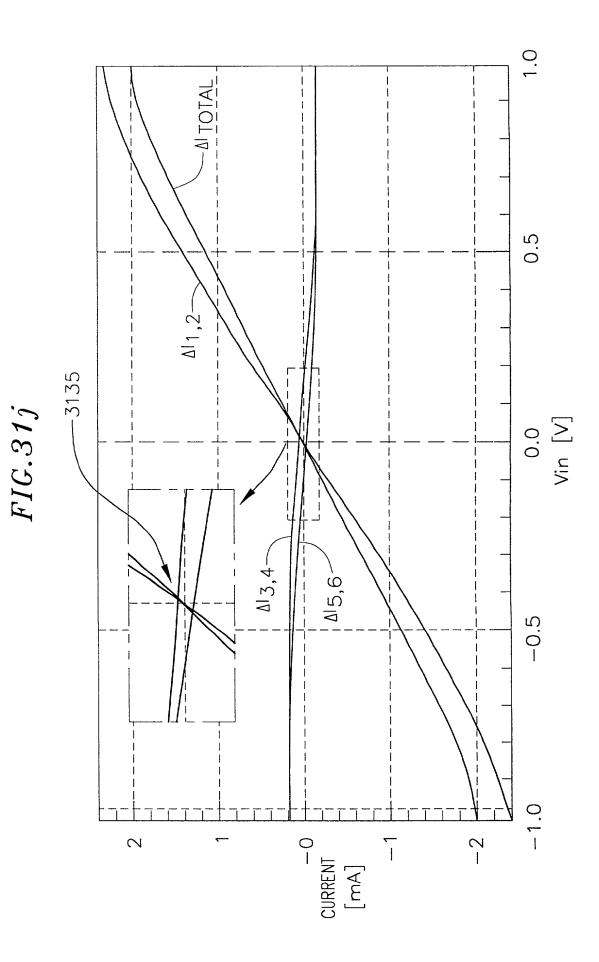
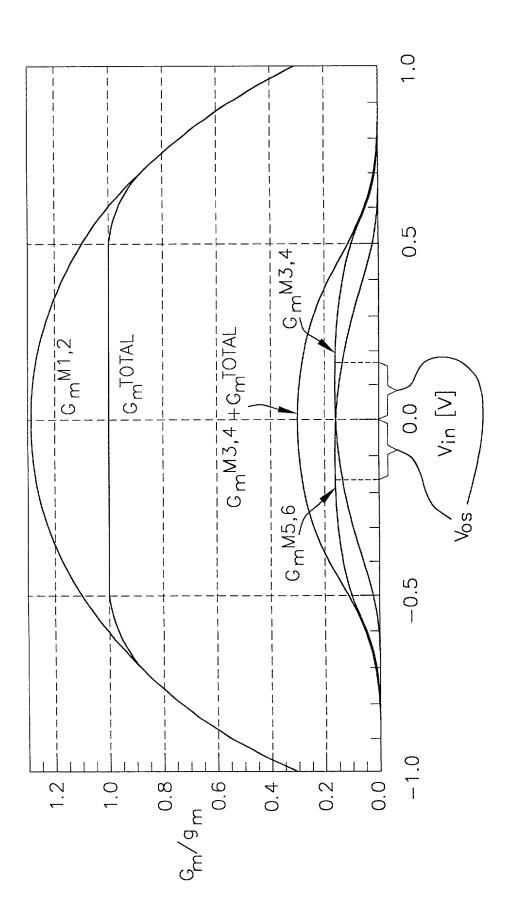


FIG.31k



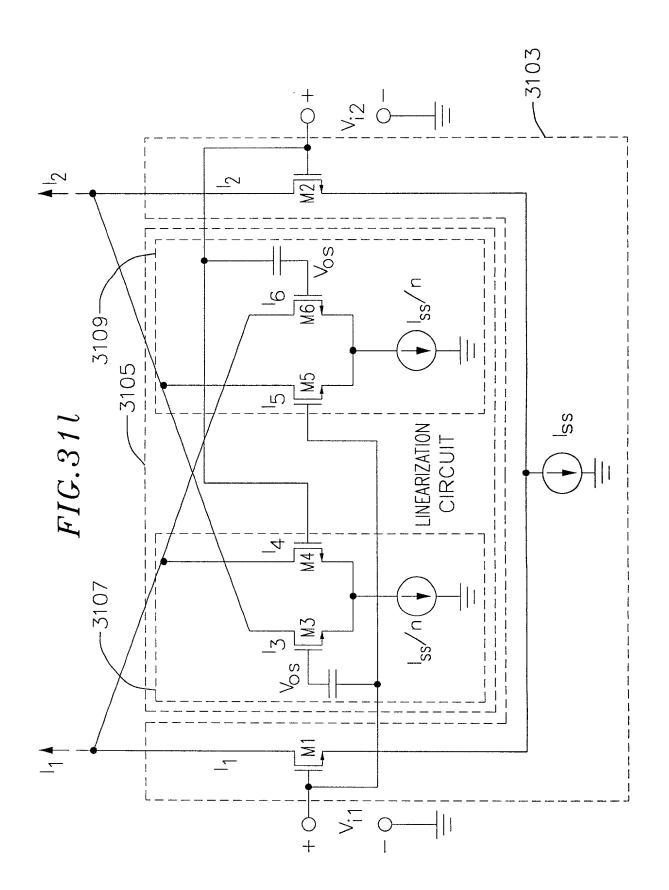


FIG.31m

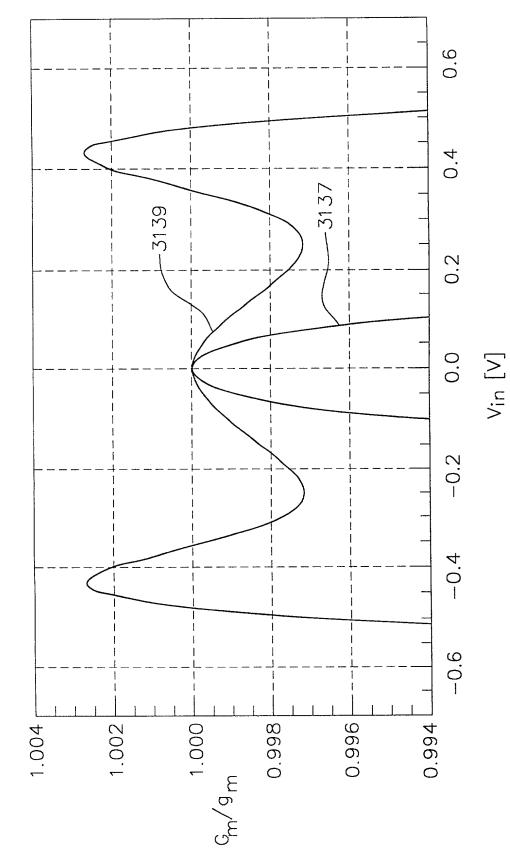


FIG.32

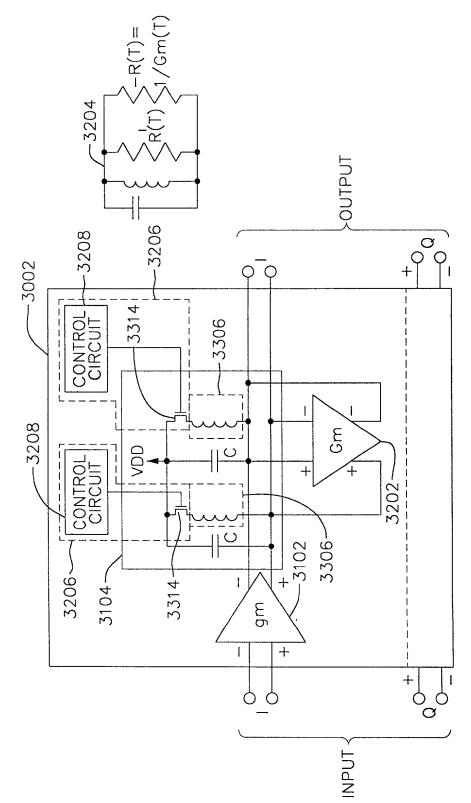
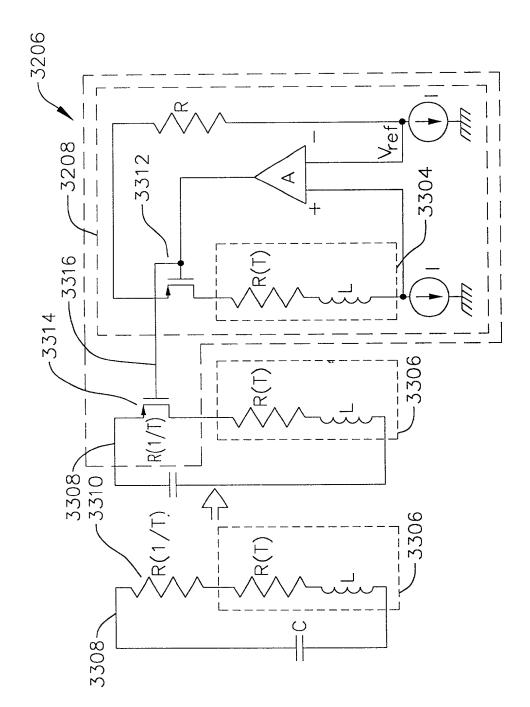


FIG.33



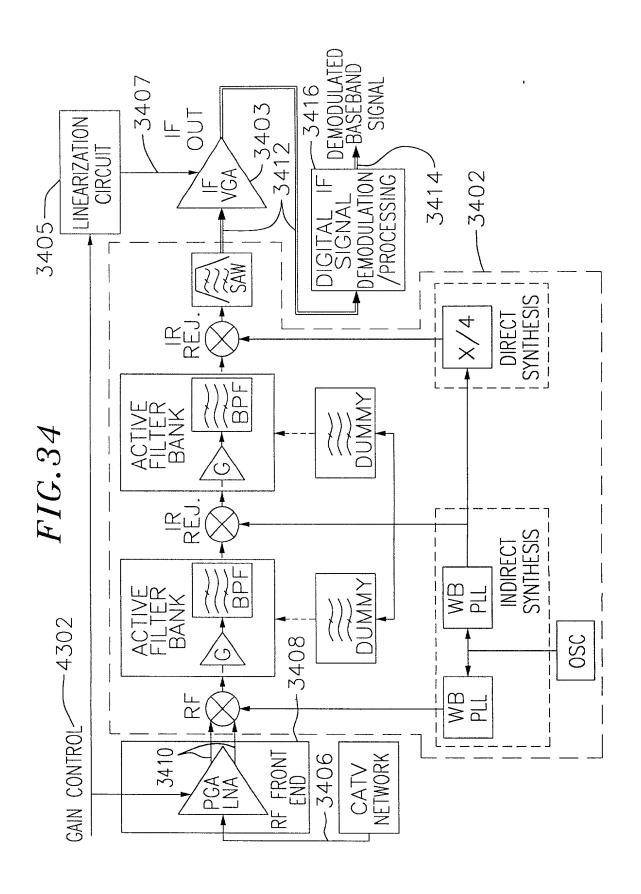
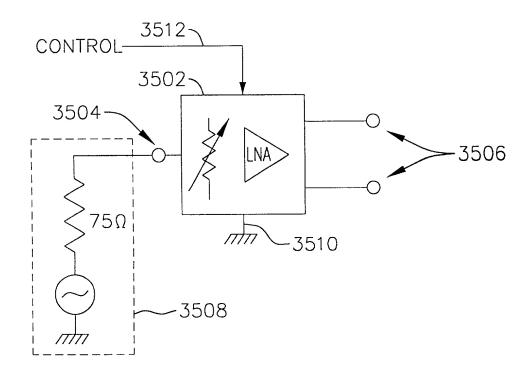


FIG.35



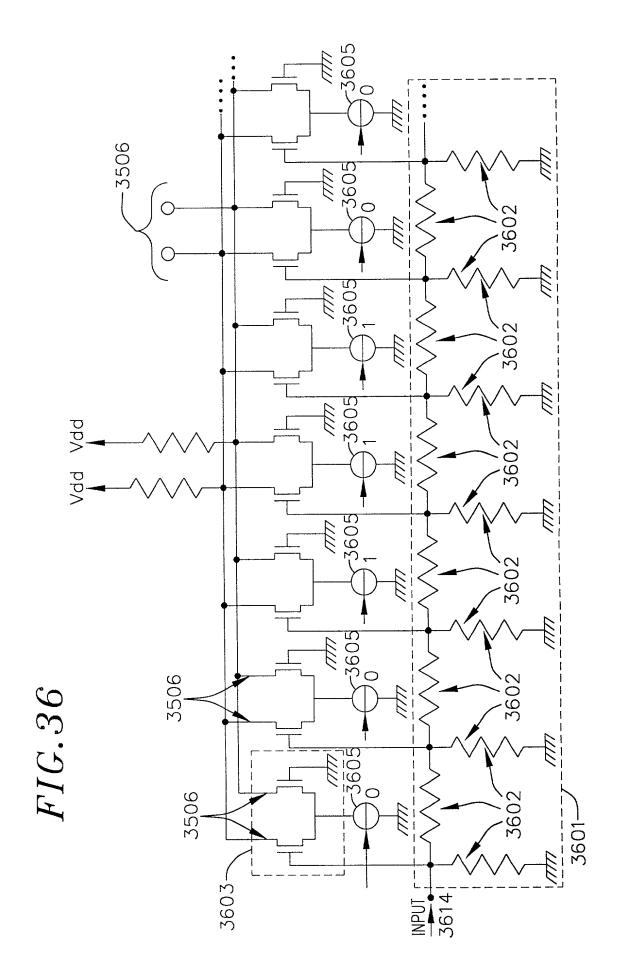


FIG.37

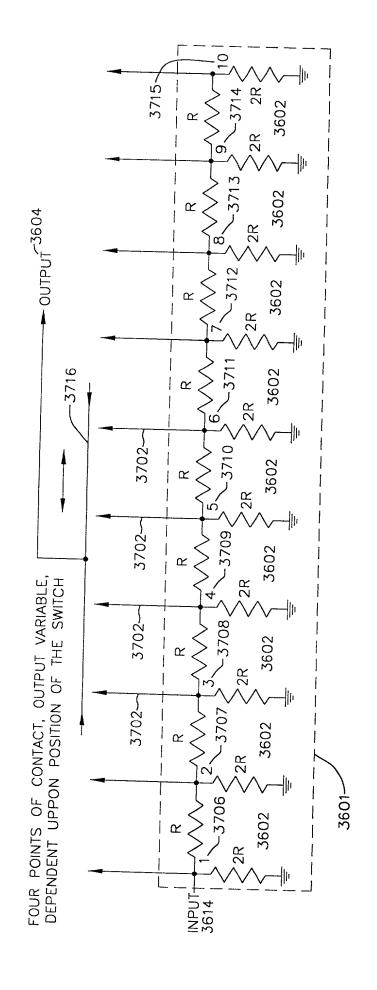


FIG.38

PGA SETTINGS

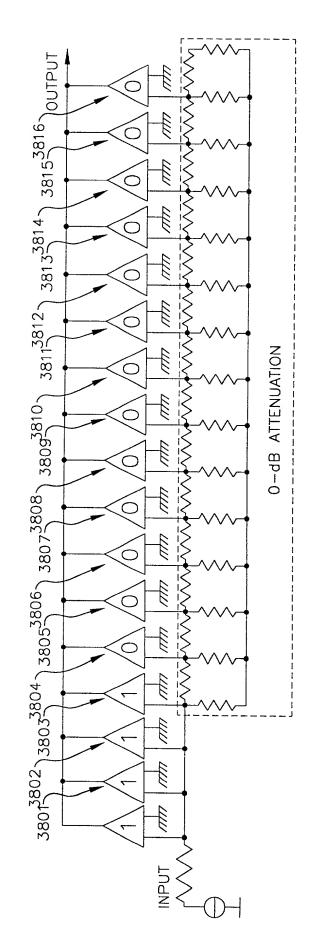


FIG.39

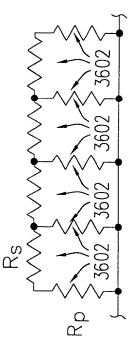


FIG.40

PGA ARCHITECTURE

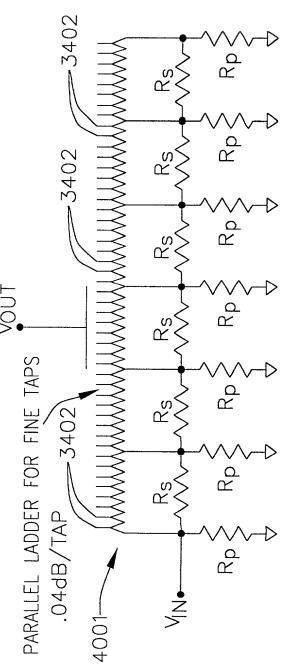


FIG. 41

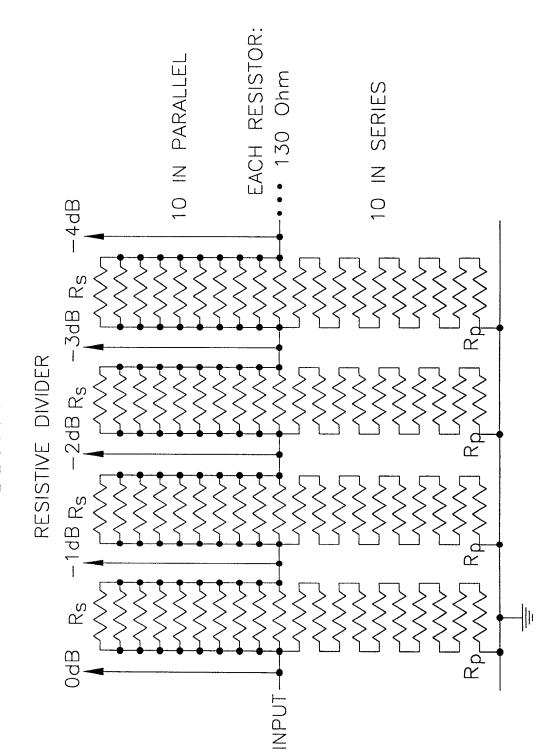


FIG.42

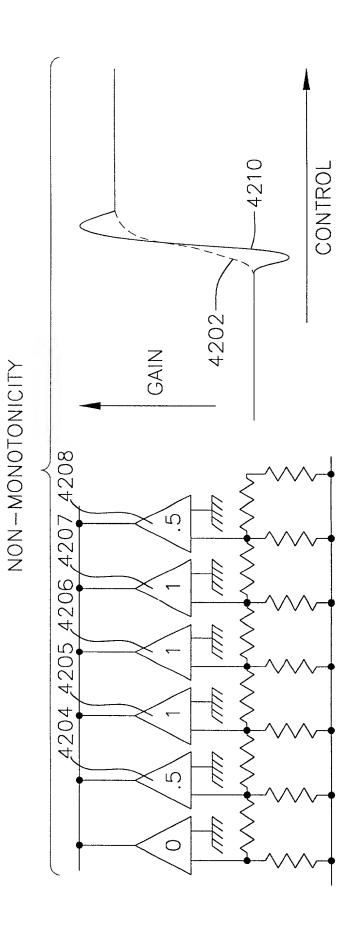
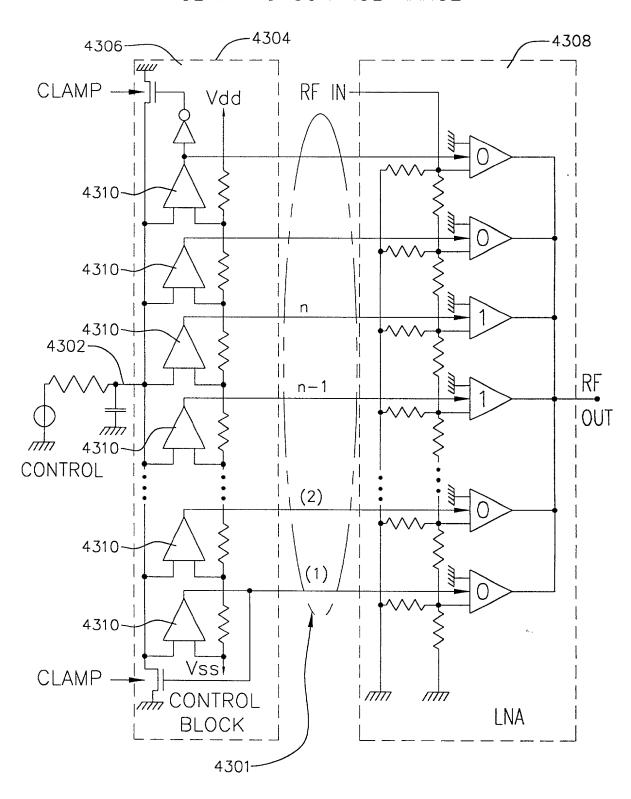
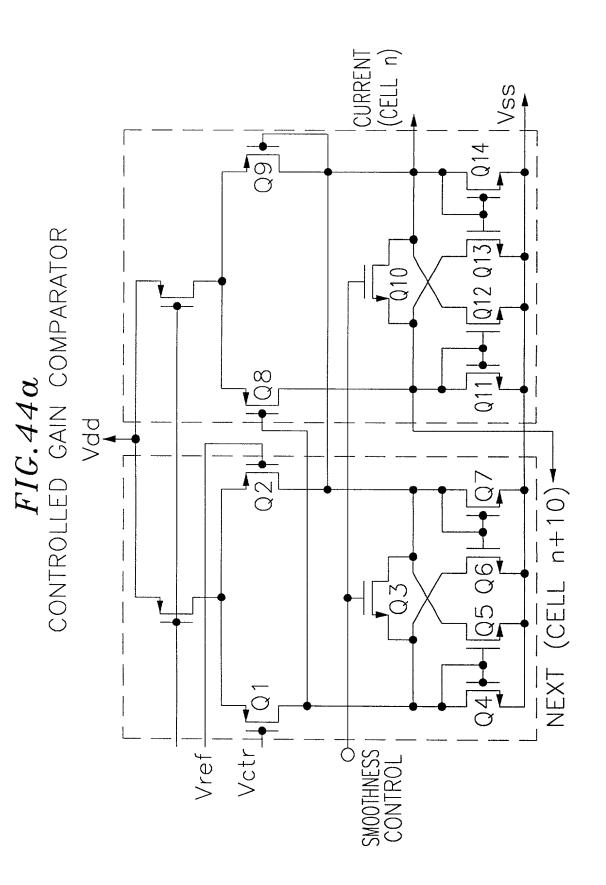
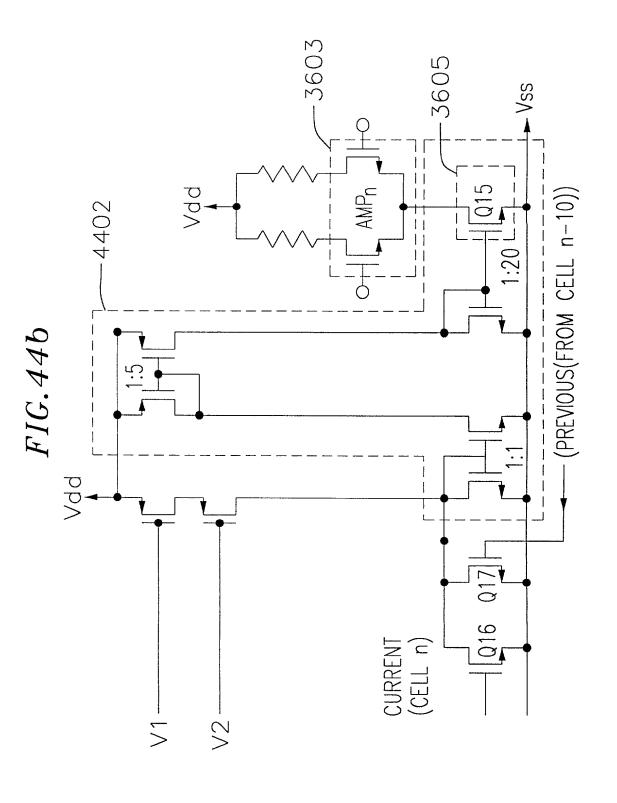


FIG.43 Clamping control range







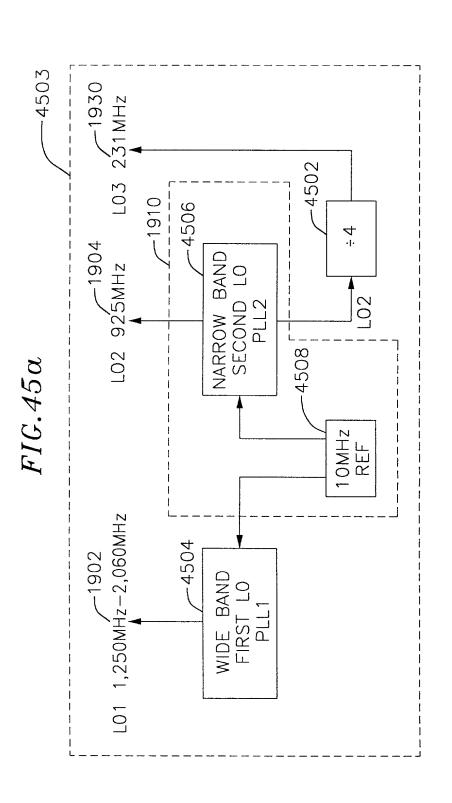
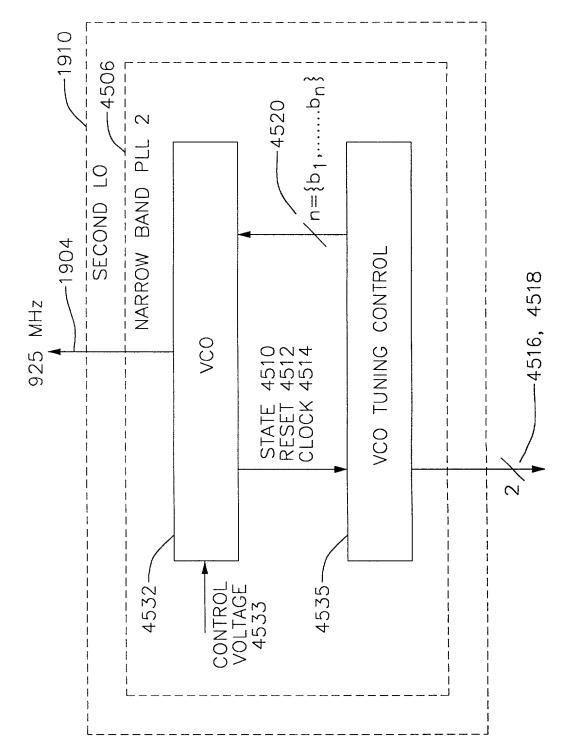
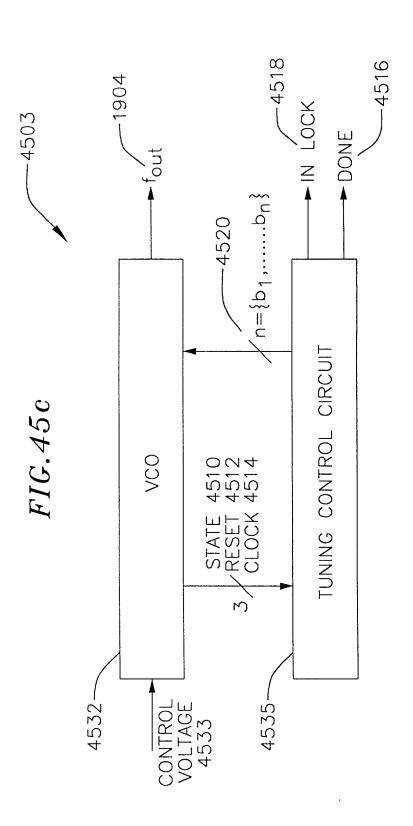
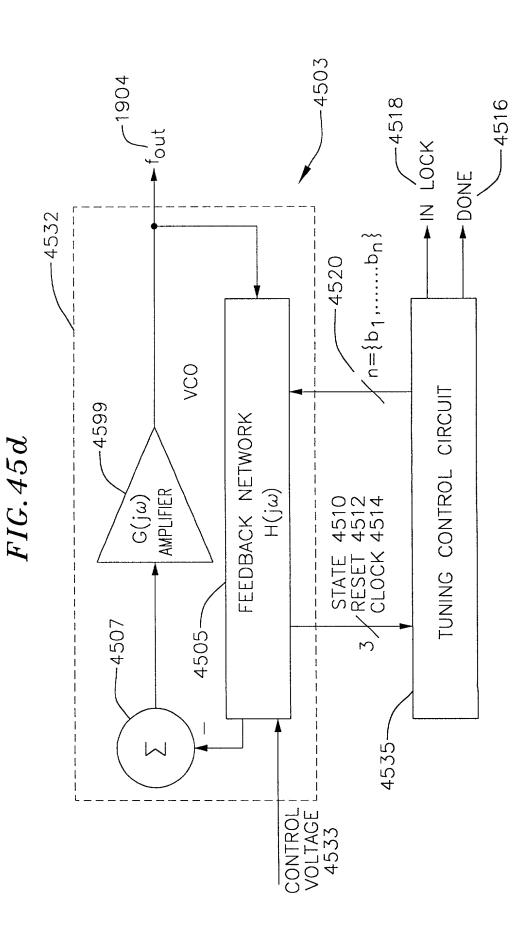


FIG. 45b







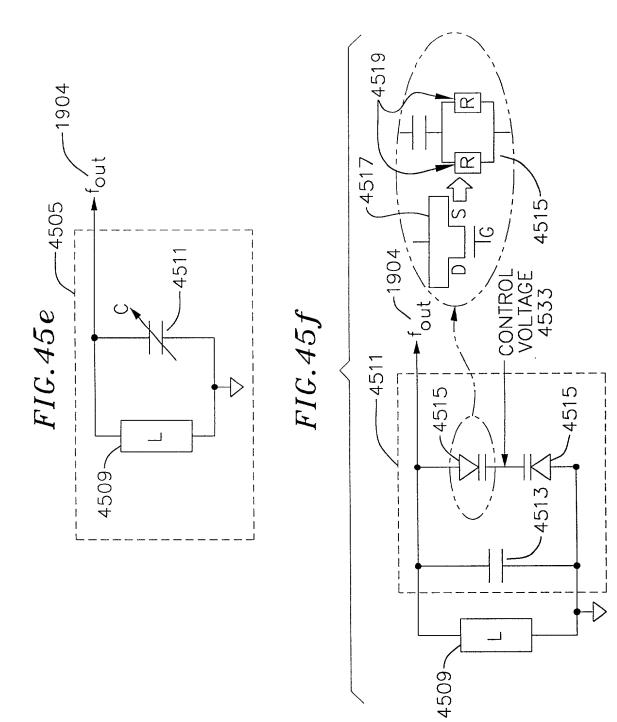
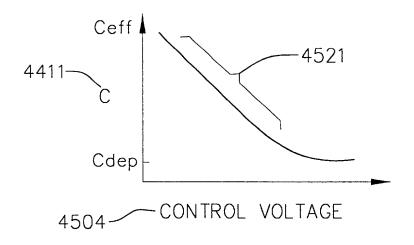
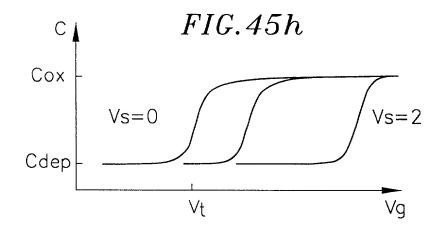
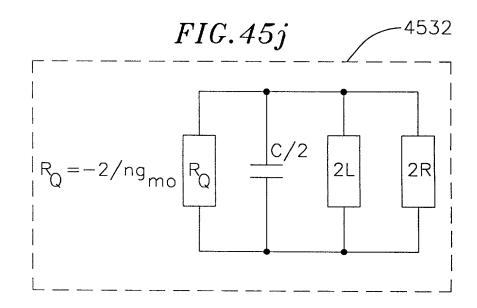


FIG.45g capacitance vs control voltage







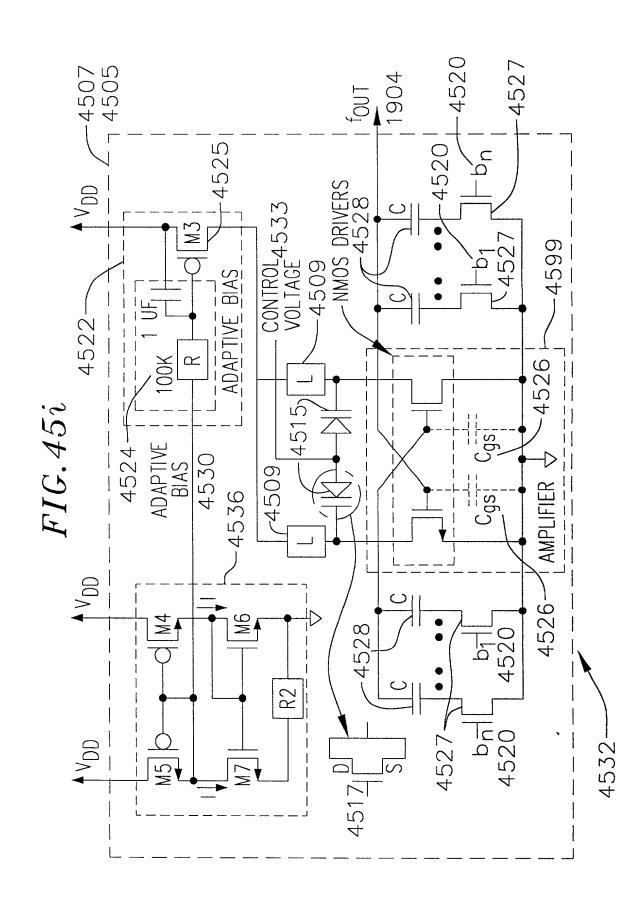
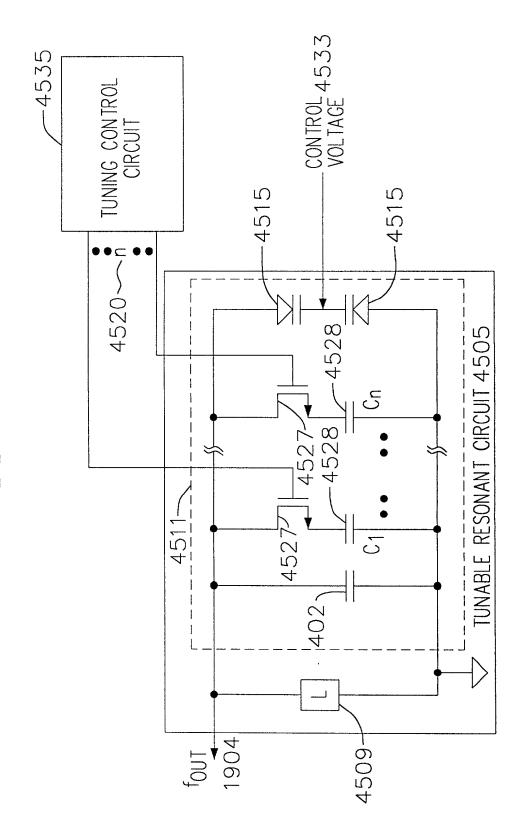


FIG.45k



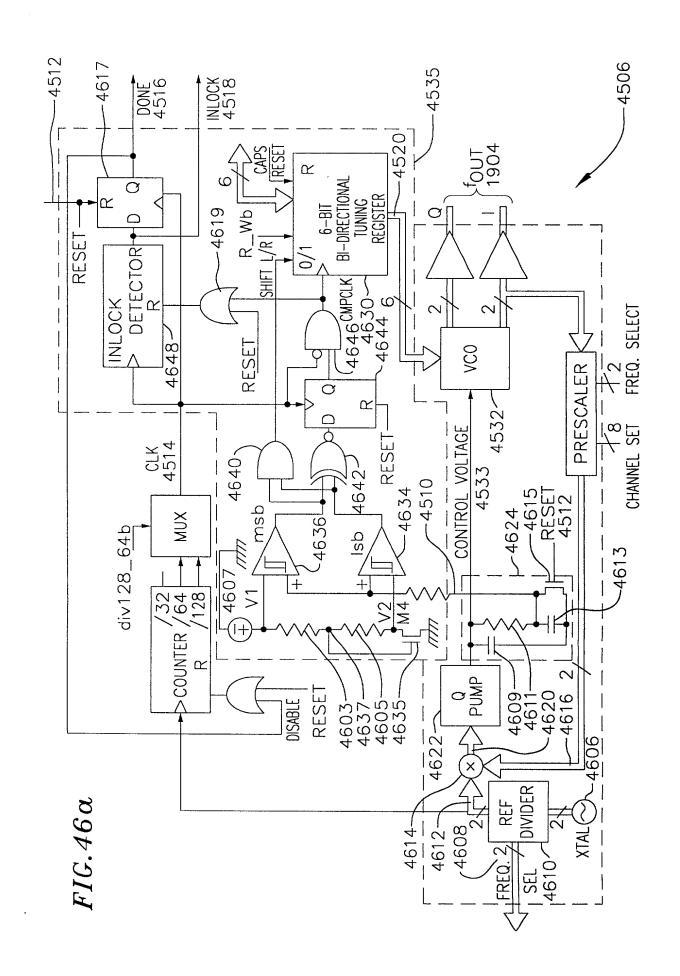
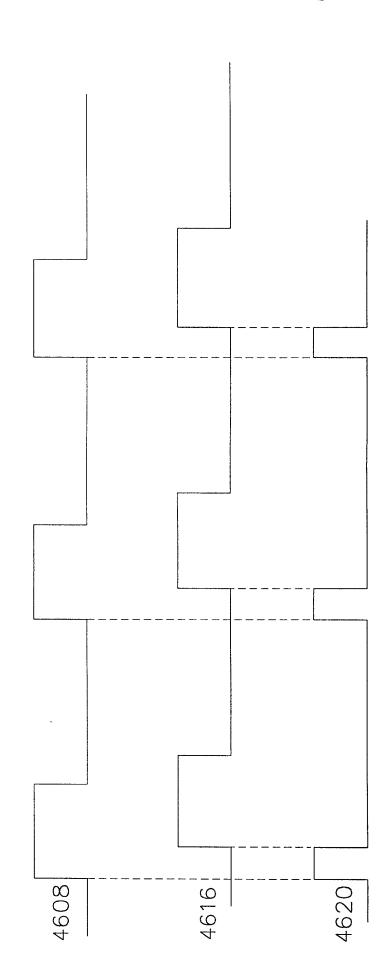


FIG.46b



 $FIG.47\alpha$

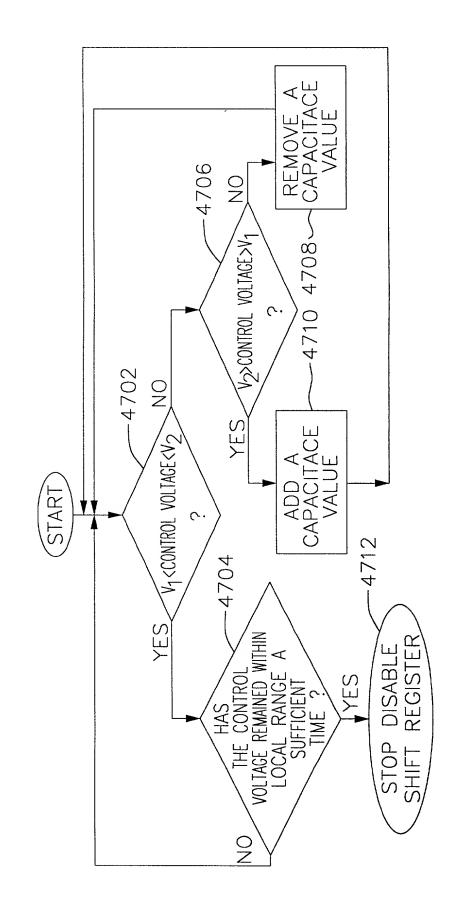
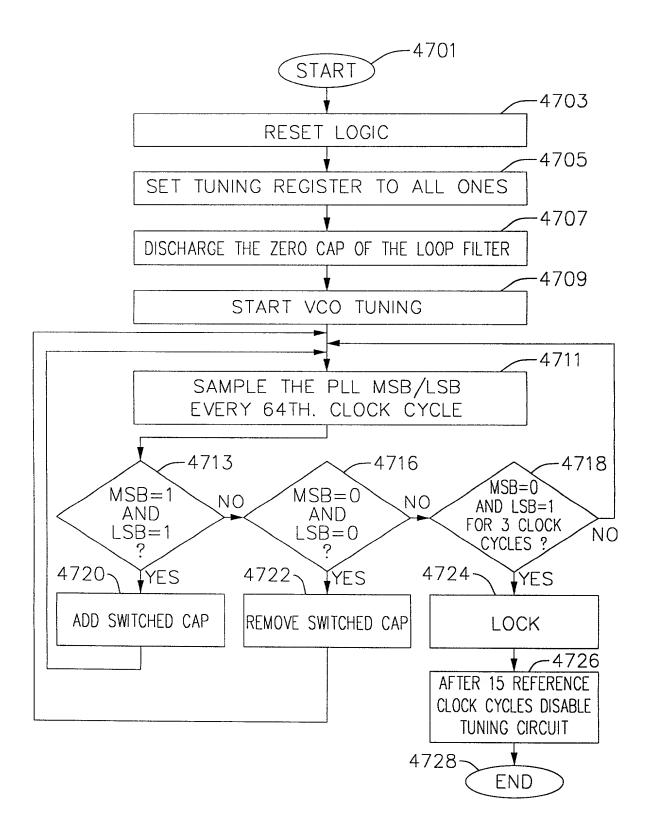


FIG. 47b



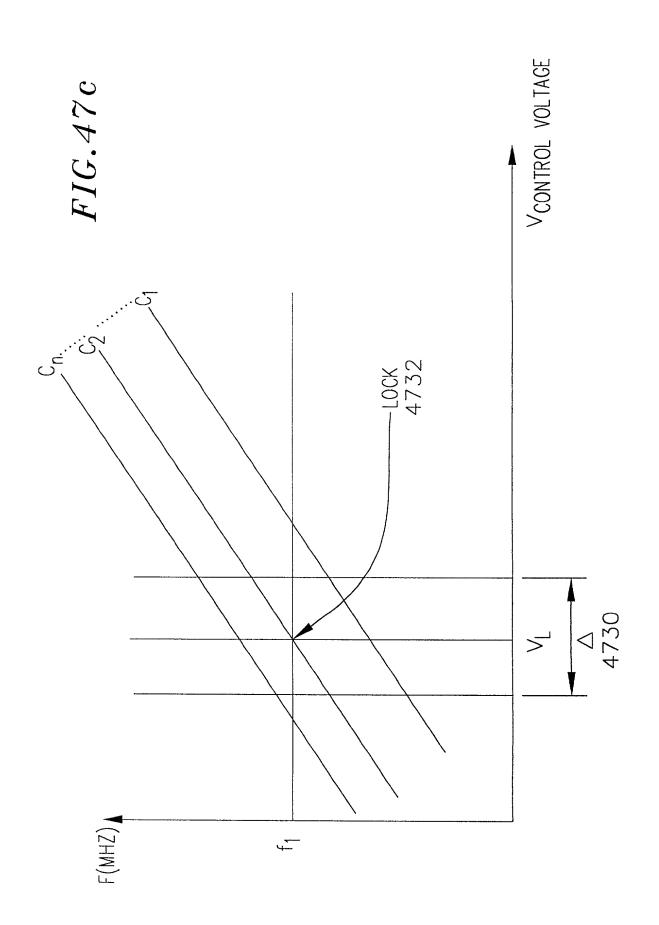
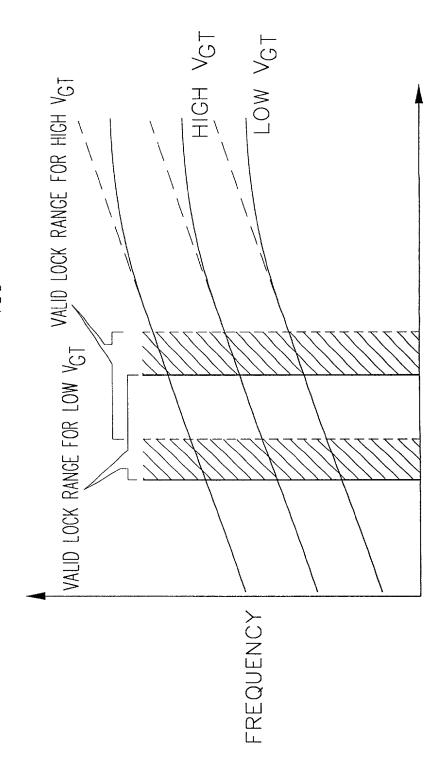
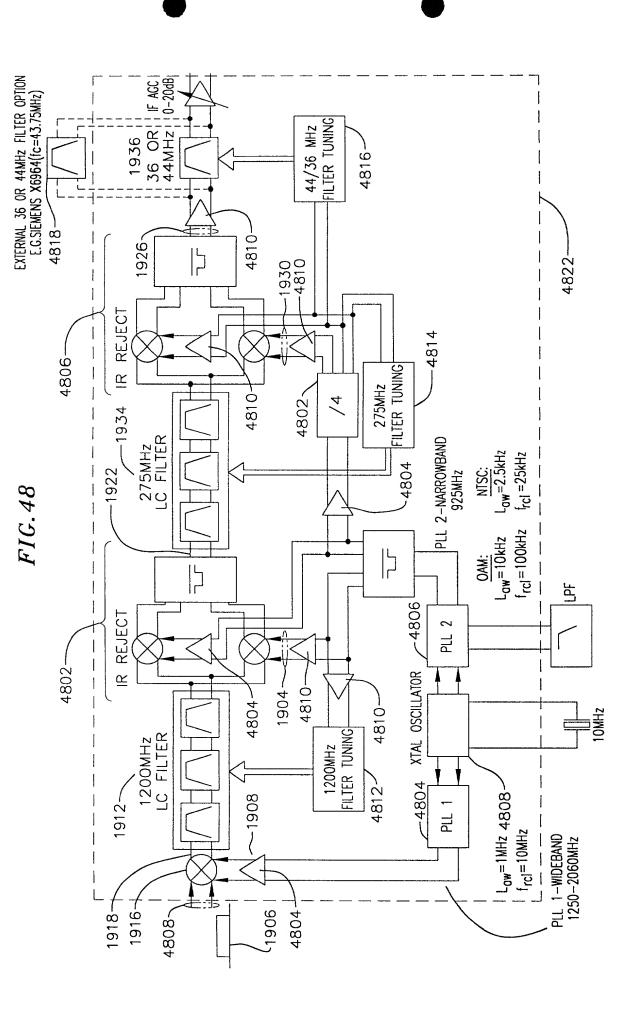


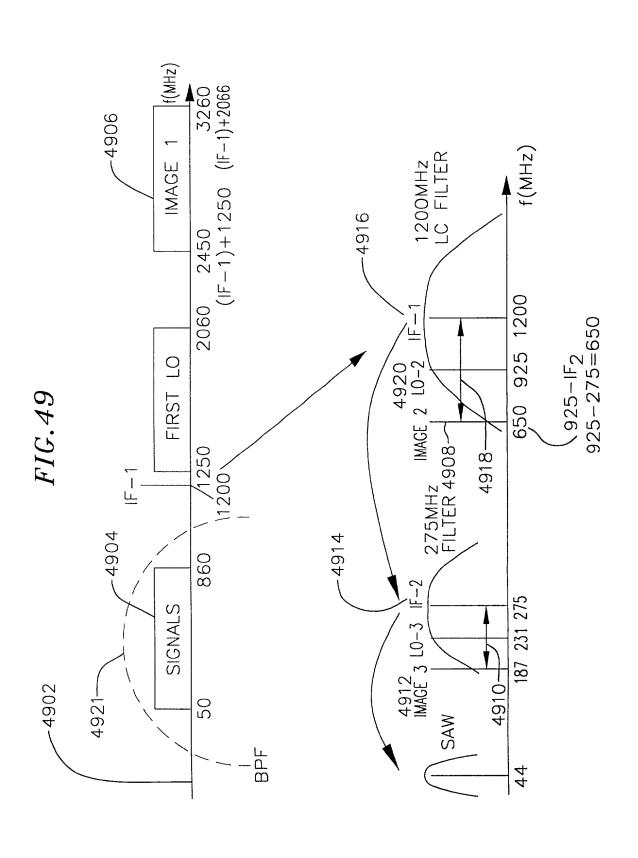
FIG. 47d

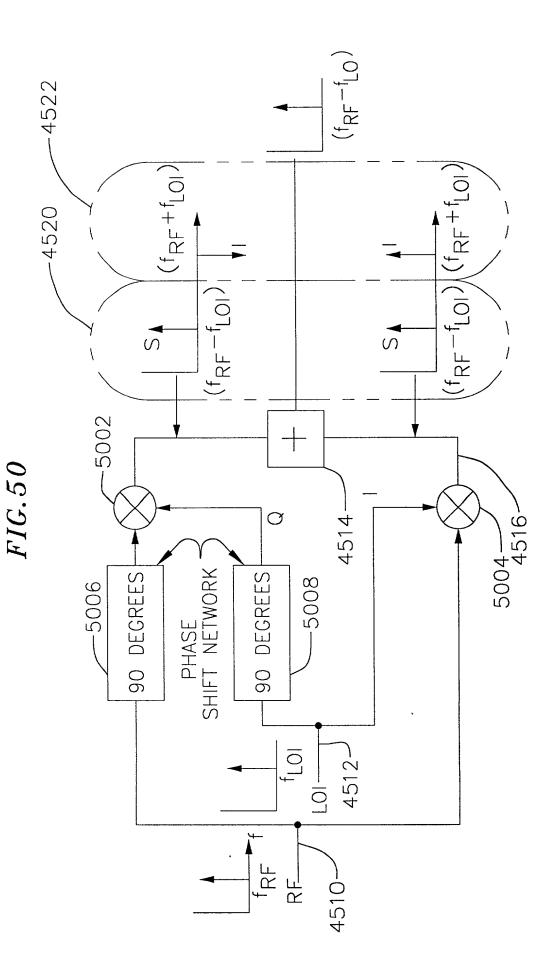
REPRESENTATIVE Kyco Curves

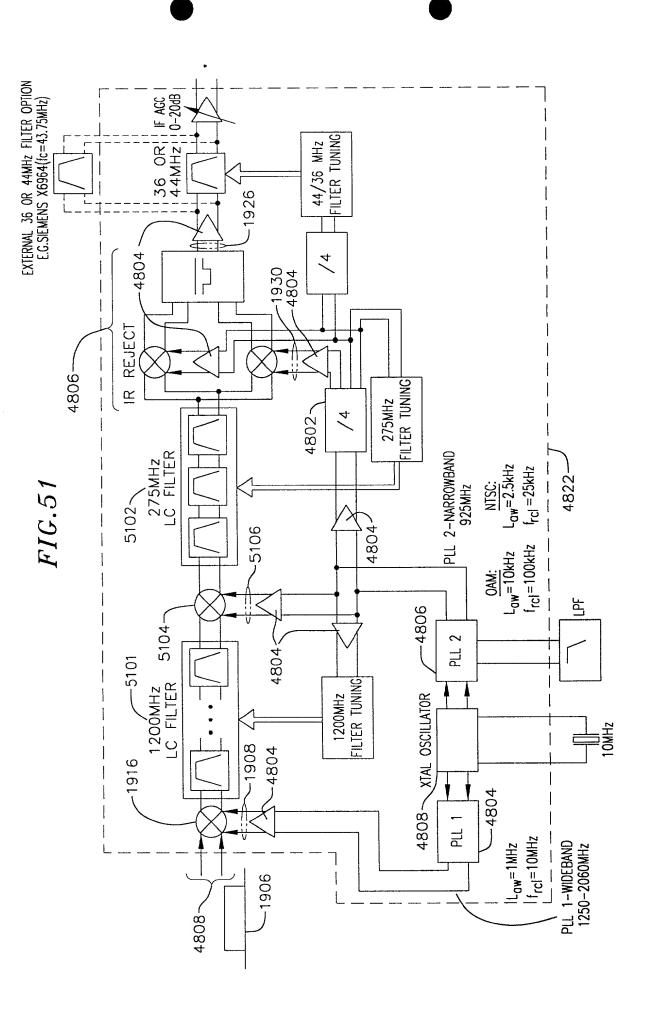


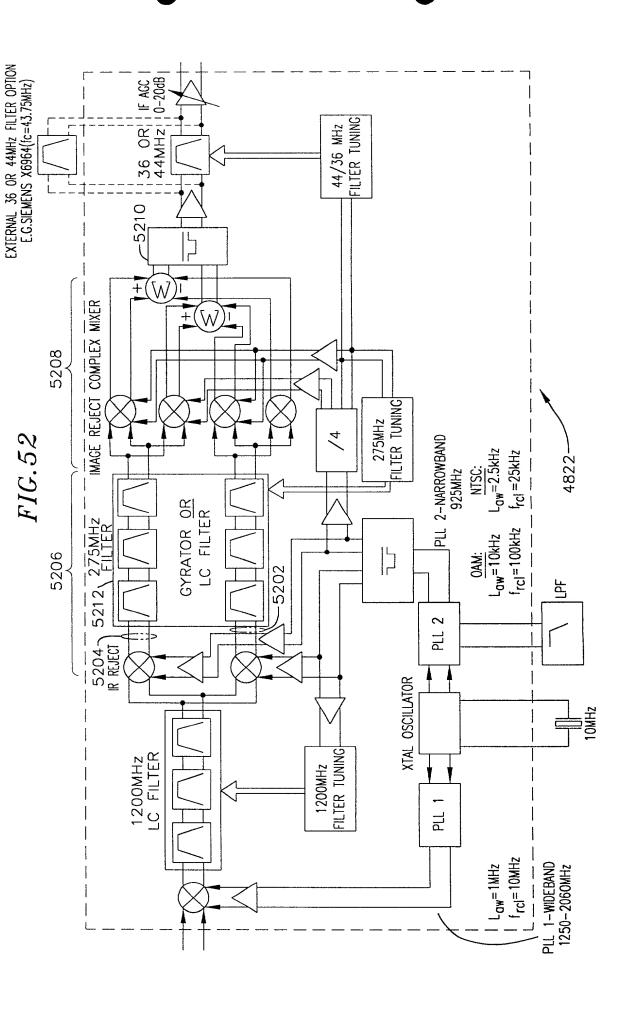
CONTROL VOLTAGE

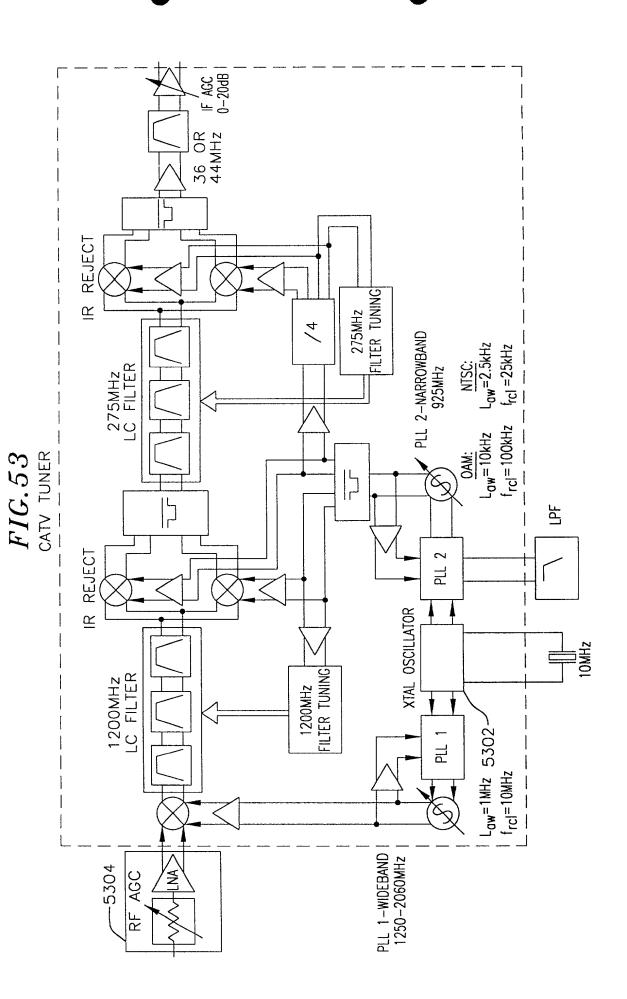






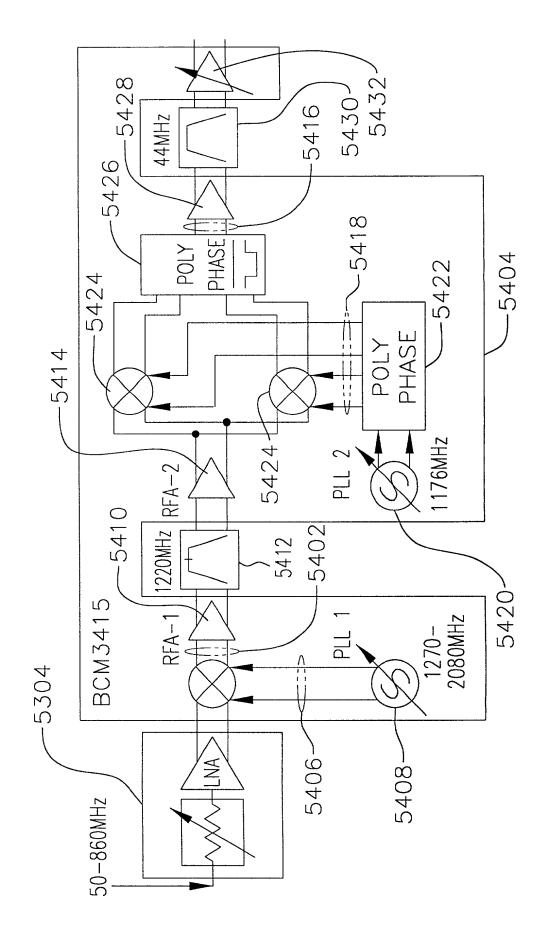


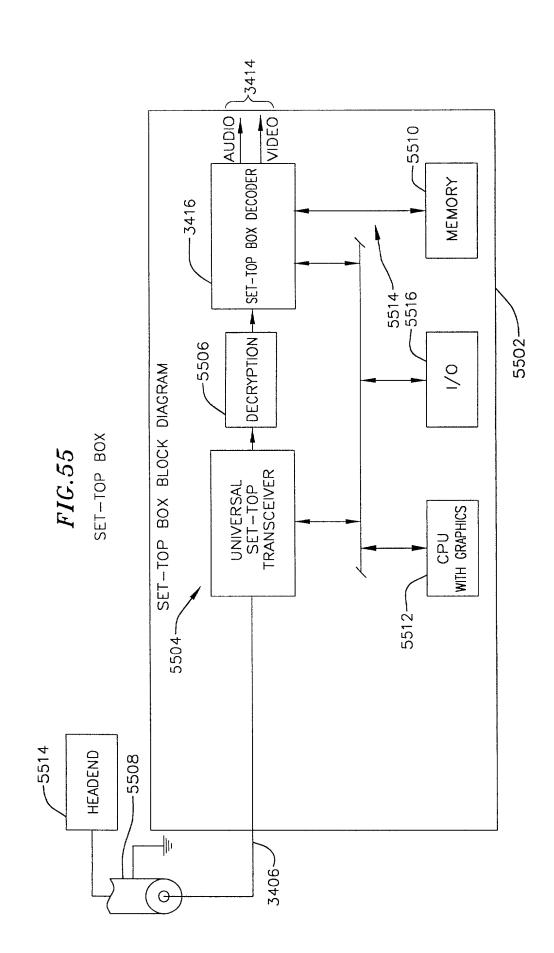


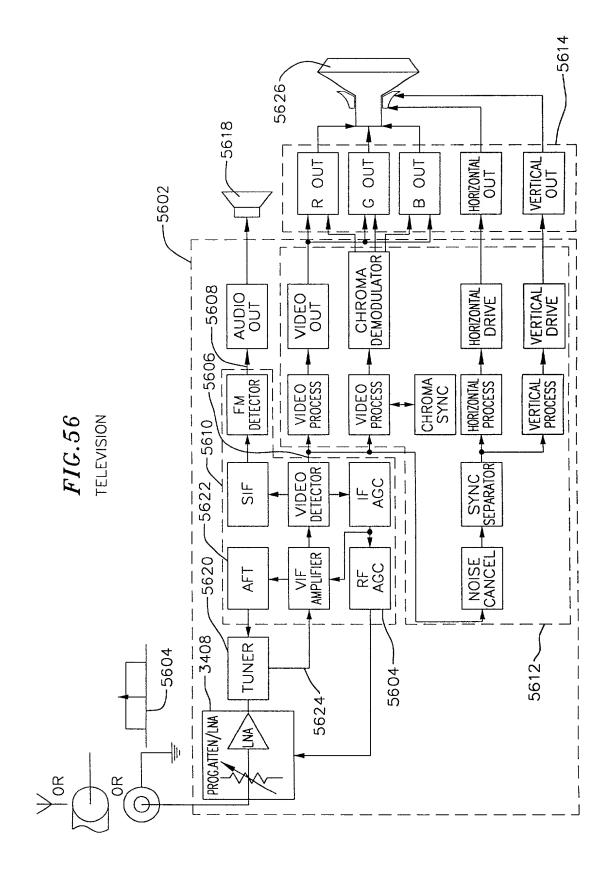


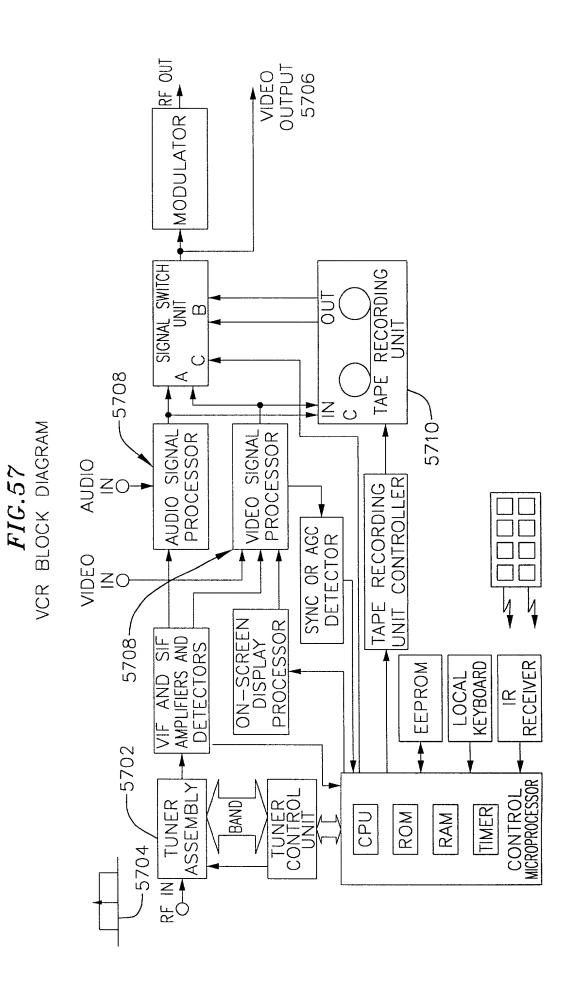
of most the flow the soul of the flow than the

FIG.54









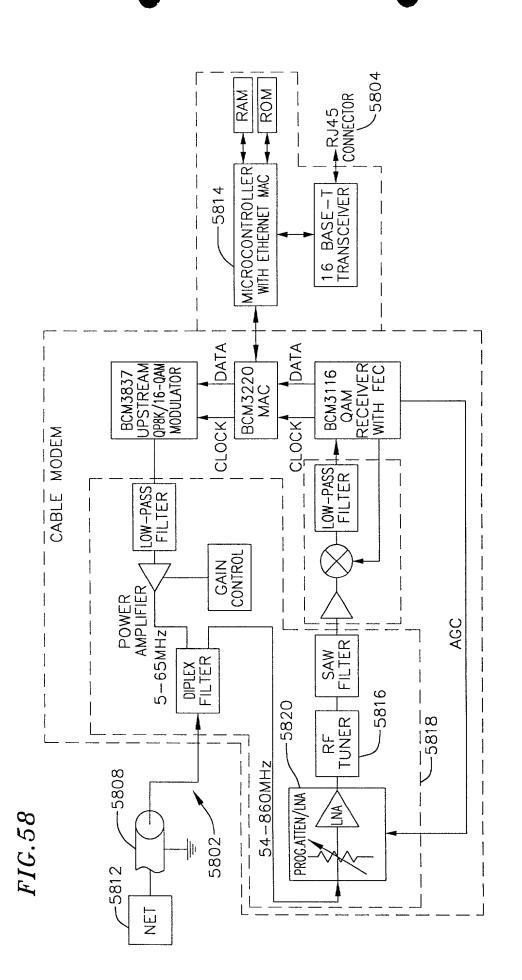
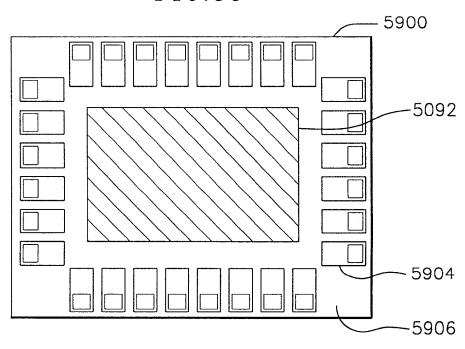


FIG.59



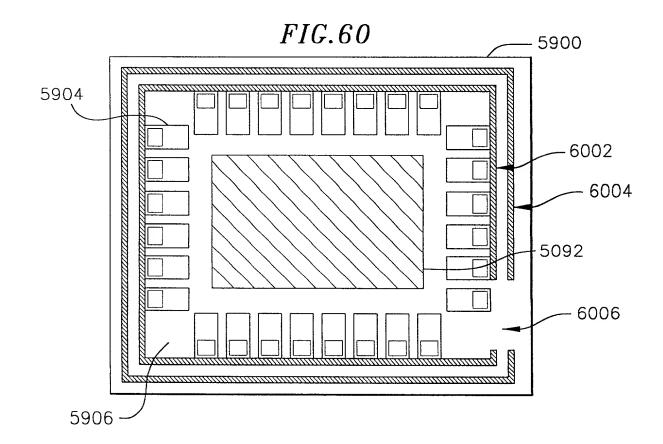


FIG. 61

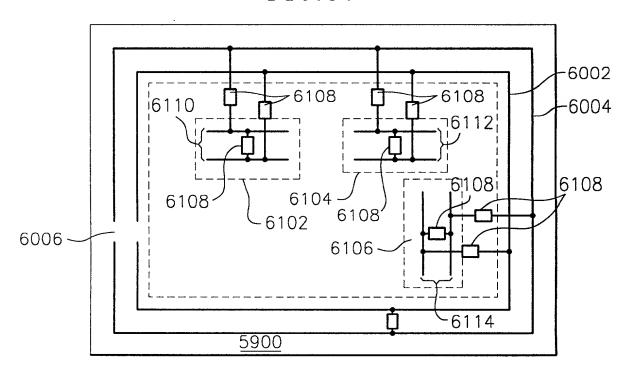


FIG. 62

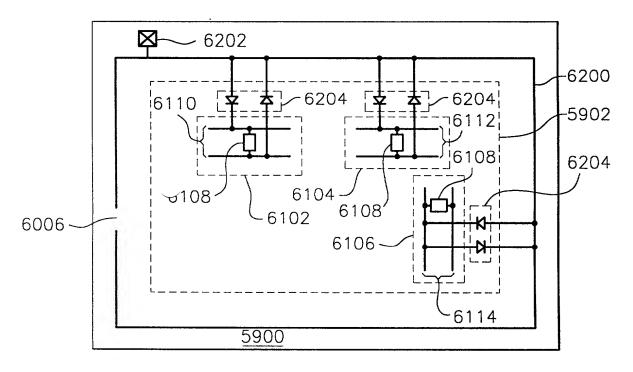


FIG.63

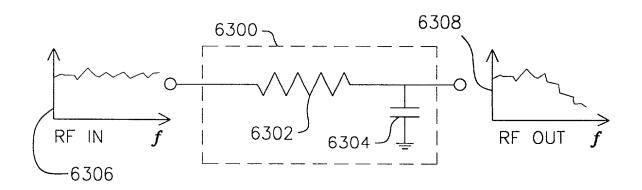


FIG. 64 FIG. 65 6404-

FIG.66

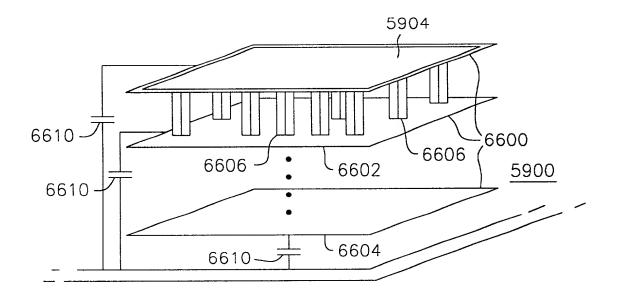


FIG. 67

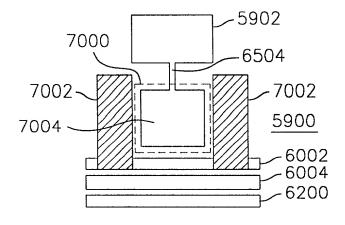
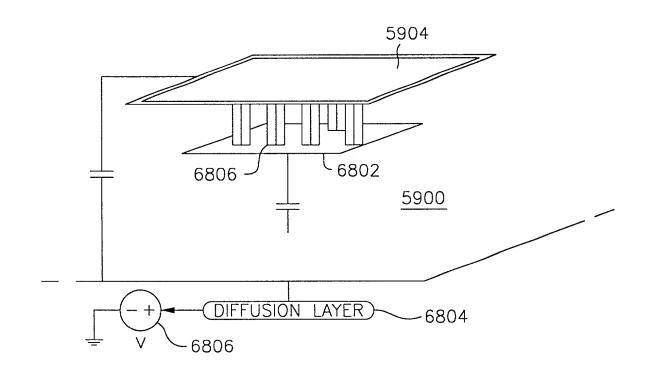
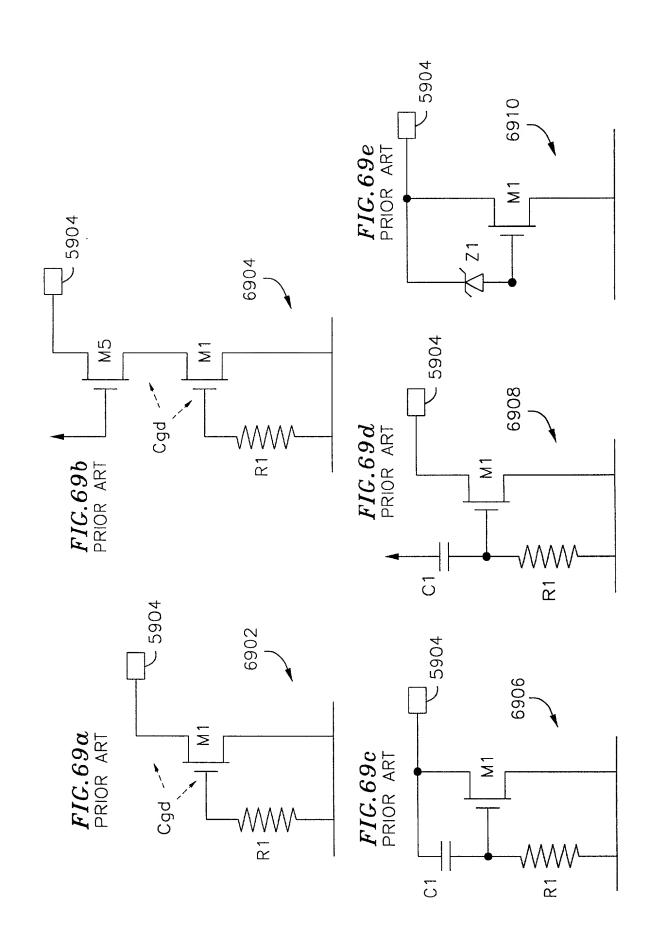
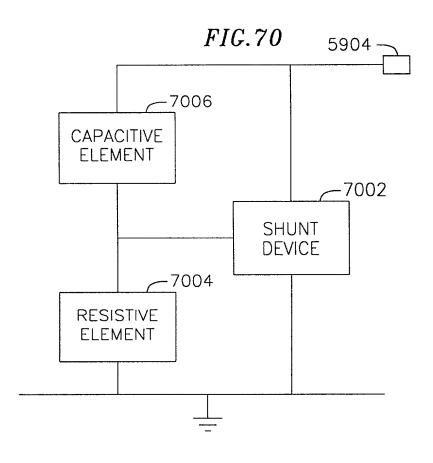
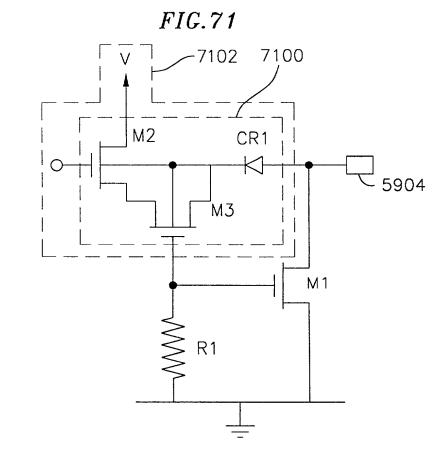


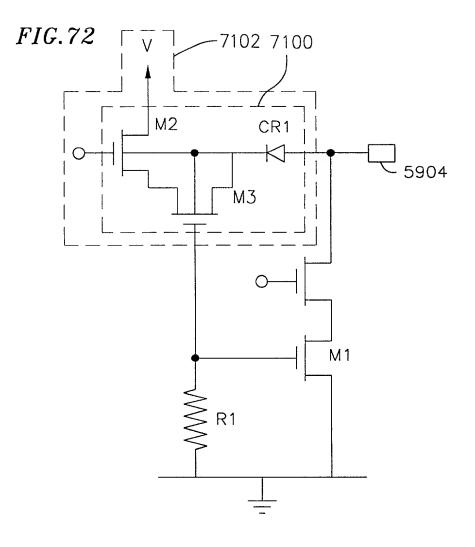
FIG. 68











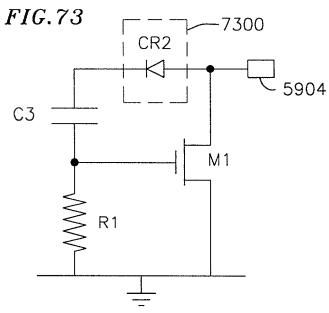
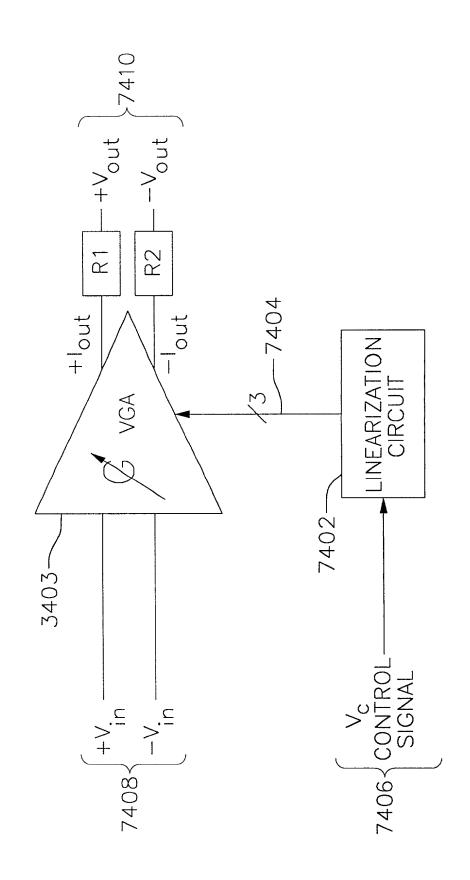


FIG. 74



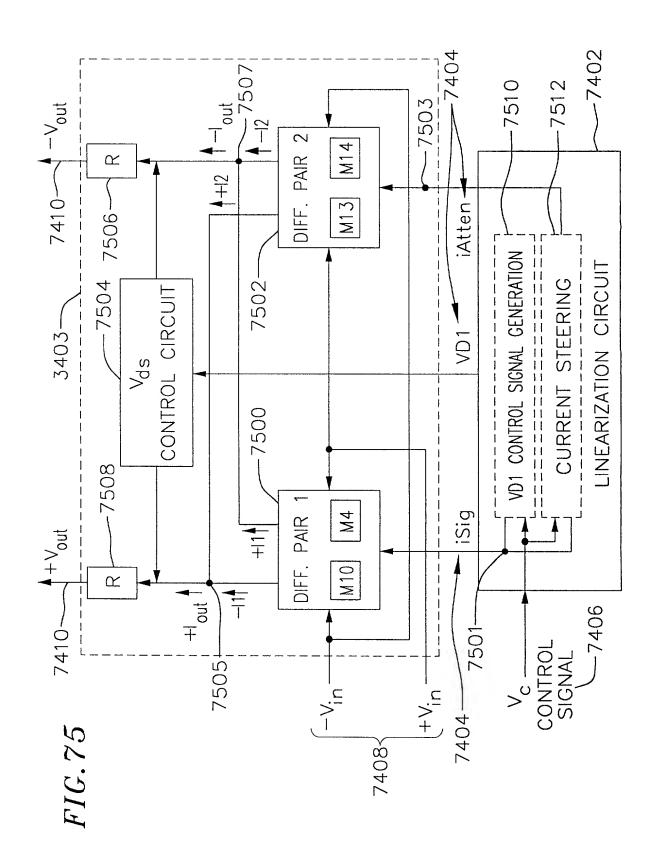
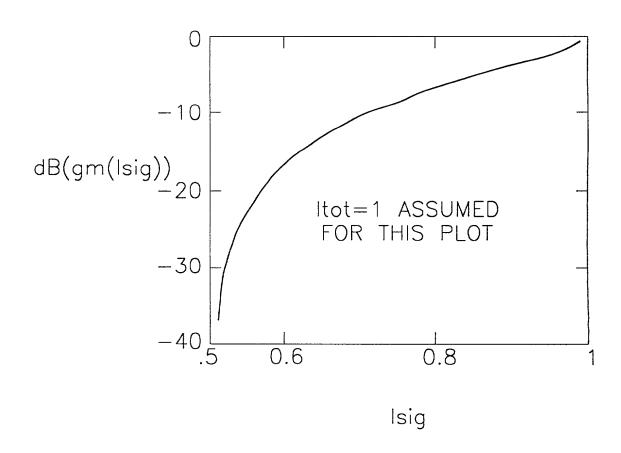
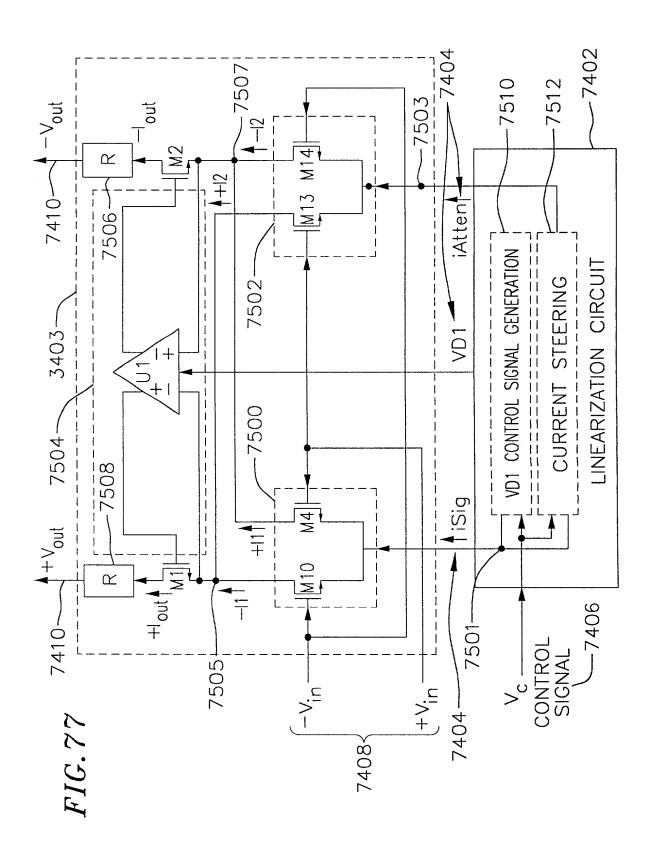


FIG. 76





 $FIG.78\alpha$

FIG.78b

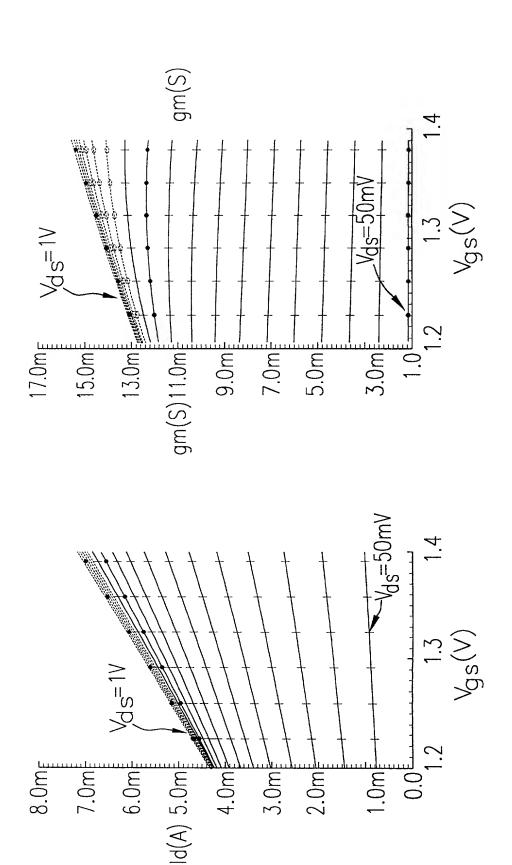
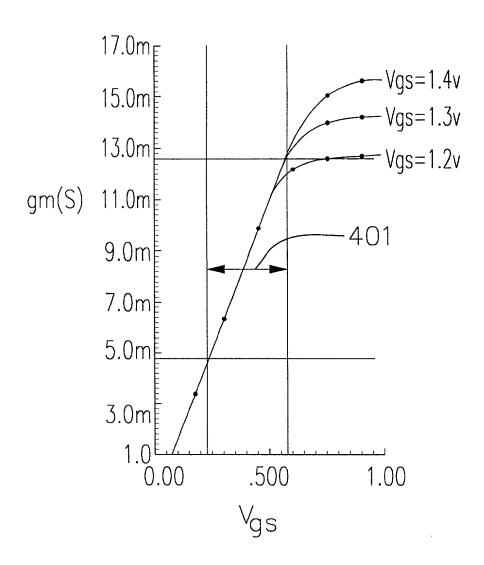
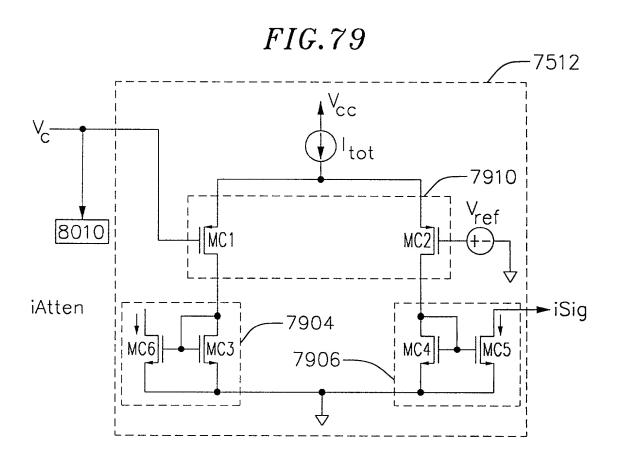
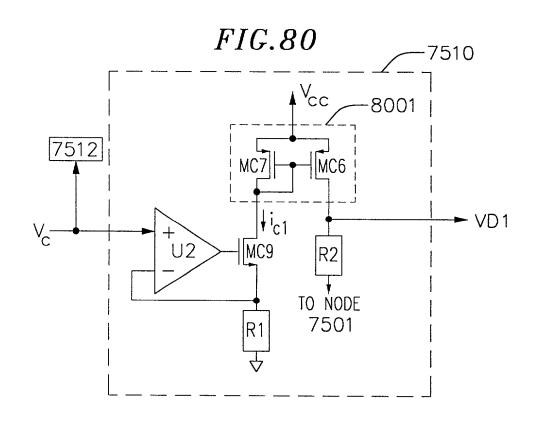


FIG. 78c







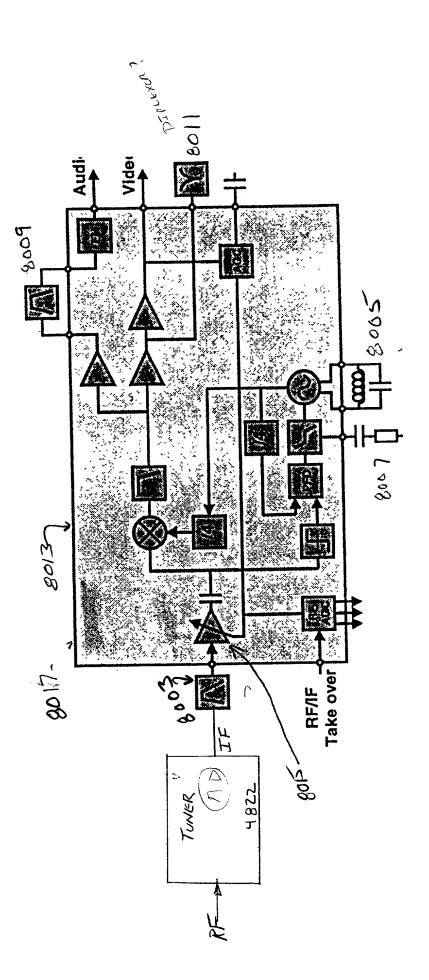


FIG. 81

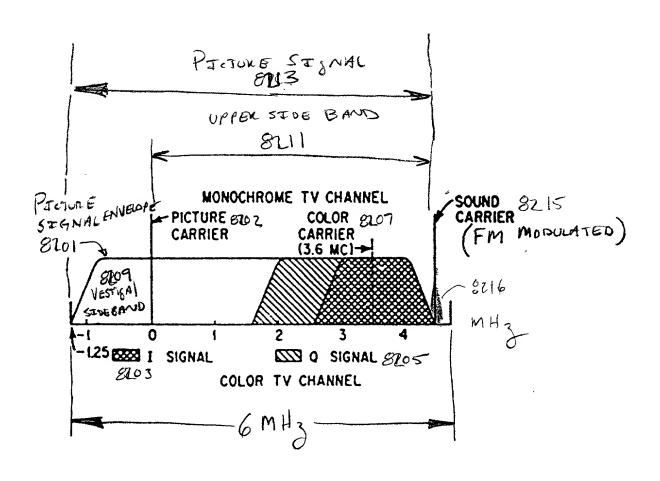


FIG. 8Z

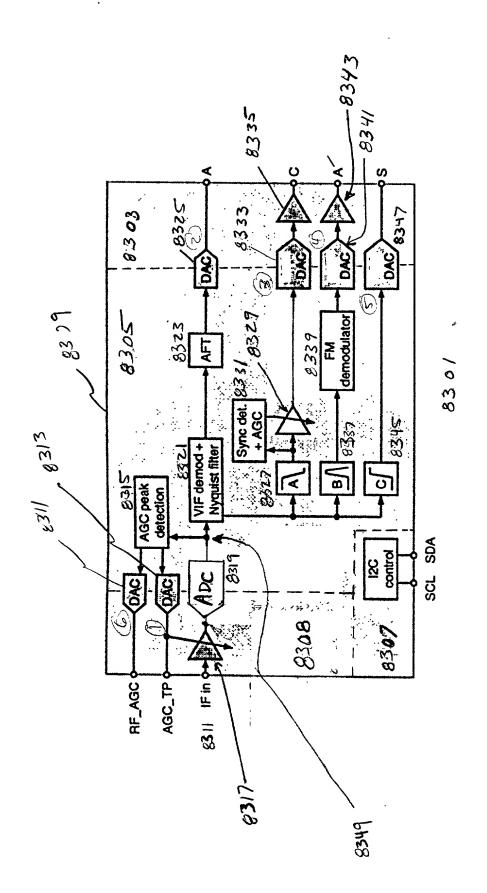


FIG. 83.

